ESSAYS,

Literary, Moral & Philosophical

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IN THE

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AS A RECORD

OF FRATERNAL AFFECTION,

THE FOLLOWING ESSAYS ARE INSCRIBED TO

JACOB RUSH,

Judge of the Third District of Pennsylvania,

By HIS FRIEND

AND BROTHER,

THE AUTHOR,

January 9, 1798.

PREFACE.

MOST of the following Effays were published in the Muleum, and Columbian Magazine, in this City, foon after the end of the revolutionary war in the United States. A few of them made their first appearance in pamphlets. They are now published in a fingle volume, at the request of feveral friends, and with a view of promoting the ends at first contemplated by them. Two of the Effays, viz: that upon the use of Tobacco, and the account of remarkable circumfrances in the conflitution and life of Ann Woods, are now submitted for the first time to the eve of the public. The author has omitted in this collection two pamphlets which he published in the year 1772, upon the flavery of the Negroes, because he conceived the object of them had been in part accom-

PREFACE.

plished, and because the Citizens of the United States have fince that time been furnished from Great Britain and other countries, with numerous tracks upon that subject, more calculated to complete the effect intended by the author, than his early publications.

BENJAMIN RUSH.

Philadelphia, Jan. 9, 1798.

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Essays,

LITERARY, MORAL, AND PHILOSOPHICAL.

A PLAN FOR ESTABLISHING PUBLIC SCHOOLS IN PENNSYLVANIA, AND FOR CONDUCTING EDUCA-TION AGREEABLY TO A REPUBLICAN FORM OF GO-VERNMENT. ADDRESSED TO THE LEGISLATURE AND CITIZENS OF PENNSYLVANIA, IN THE YEAR 1786.

BEFORE I proceed to the fubject of this effay, I shall point out, in a few words, the influence and advantages of learning upon mankind.

I. It is friendly to religion, inafmuch as it affifts in removing prejudice, fuperfitition and enthuliafm, in promoting just notions of the Deity, and in enlarging our knowledge of his works.

II. It is favourable to liberty. Freedom can exift only in the fociety of knowledge. Without learning, men are incapable of knowing their rights, and where learning is confined to a few people, liberty can be neither equal nor univerfal. A PLAN FOR ESTABLISHING PUBLIC

III. It promotes just ideas of laws and government. "When the clouds of ignorance are difpelled (fays the Marquis of Beccaria) by the radiance of knowledge, power trembles, but the authority of laws remains immoveable."

IV. It is friendly to manners. Learning in all countries, promotes civilization, and the pleafures of fociety and conversation.

V. It promotes agriculture, the great basis of national wealth and happines. Agriculture is as much a fcience as hydraulics, or optics, and has been equally indebted to the experiments and refearches of learned men. The highly cultivated state, and the immense profits of the farms in England, are derived wholly from the patronage which agriculture has received in that country, from learned men and learned societies.

VI. Manufactures of all kinds owe their perfection chiefly to learning—hence the nations of Europe advance in manufactures, knowledge, and commerce, only in proportion as they cultivate the arts and fciences.

For the purpose of diffusing knowledge through every part of the state, I beg leave to propose the following simple plan.

I. Let there be one university in the state, and let this be established in the capital. Let law, physic, divinity, the law of nature and nations, œconomy, &c. be taught in it by public lectures in the winter season,

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SCHOOLS IN PENNSTLVANIA.

after the manner of the European universities, and let the professors receive such salaries from the state as will enable them to deliver their lectures at a moderate price.

II. Let there be four colleges. One in Philadelphia; one at Carlisle; a third, for the benefit of our German fellow citizens, at Lancaster; and a fourth, some years hence at Pittfburg. In these colleges, let young men be instructed in mathematics and in the higher branches of science, in the same manner that they are now taught in our American colleges. After they have received a testimonial from one of these colleges, let them, if they can afford it, complete their studies by spending a season or two in attending the lectures in the university. I prefer four colleges in the state to one or two, for there is a certain fize of colleges as there is of towns and armies, that is most favourable to morals and good government. Oxford and Cambridge in England are the feats of diffipation, while the more numerous, and lefs crouded univerfities and colleges in Scotland, are remarkable for the order, diligence, and decent behaviour of their students.

III. Let there be free fchools eftablished in every township, or in districts consisting of one hundred families. In these schools let children be taught to read and write the English and German languages, and the use of figures. Such of them as have parents that can afford to fend them from home, and are disposed to extend their educations, may remove their children from the free school to one of the colleges. By this plan the whole ftate will be tied together by one fystem of education. The university will in time furnish masters for the colleges, and the colleges will furnish masters for the free schools, while the free schools, in their turns, will supply the colleges and the university with scholars, students and pupils. The same systems of grammar, oratory and philosophy, will be taught in every part of the state, and the literary features of Pennsylvania will thus designate one great, and equally enlightened family.

But, how shall we bear the expense of these literary inftitutions?——I answer—These institutions will *leffen* our taxes. They will enlighten us in the great business of finance—they will teach us to enerease the ability of the state to support government, by encreasing the profits of agriculture, and by promoting manufactures. They will teach us all the modern improvements and advantages of inland navigation. They will defend us from hasty and expensive experiment in government, by unfolding to us the experience and folly of past ages, and thus, instead of adding to our taxes and debts, they will furnish us with the true fecret of lessening and discharging both of them.

But, shall the estates of orphans, batchelors and perfons who have no children, be taxed to pay for the support of schools from which they can derive no benefit ? I answer in the affirmative, to the first

part of the objection, and I deny the truth of the latter part of it. Every member of the community is interested in the propagation of virtue and knowledge in the flate. But I will go further, and add, it will be crue æconomy in individuals to fupport public fchools. The batchelor will in time fave his tax for this purpose, by being able to fleep with fewer bolts and locks to his doors-the estates of orphans will in time be benefited, by being protected from the ravages of unprincipled and idle boys, and the children of wealthy parents will be less tempted, by bad company, to extravagance. Fewer pillories and whipping posts, and smaller goals, with their usual expenses and taxes, will be neceffary when our youth are properly educated, than at prefent; I believe it could be proved, that the expense of confining, trying and executing criminals, amount every year, in most of the counties, to more money than would be fufficient to maintain all the fchools that would be necessary in each county. The confessions of these criminals generally show us, that their vices and punishments are the fatal confequences of the want of a proper education in early life.

I fubmit these detached hints to the confideration of the legislature and of the citizens of Pensylvania. The plan for the free schools is taken chiefly from the plans which have long been used with success in Scotland, and in the eastern states * of America, where the influence of learning, in promoting religion, morals, manners, and good government, has never been exceeded in any country.

The manner in which these schools should be supported and governed—the modes of determining the characters and qualifications of schoolmasters, and the arrangement of families in each district, so that children of the same religious sect and nation, may be educaas much as possible together, will form a proper part of a law for the establishment of schools, and therefore does not come within the limits of this plan.

OF THE MODE OF EDUCATION PROPER

IN A REPUBLIC.

THE business of education has acquired a new complexion by the independence of our country. The form of government we have affumed, has created a new class of duties to every American. It becomes us, therefore, to examine our former habits upon this subject, and in laying the

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^{*} There are 600 of these schools in the small state of Connecticut, which at this time have in them 25,000 scholars.

foundations for nurscrites of wise and good men, to adapt our modes of teaching to the peculiar form of our government.

The first remark that I shall make upon this subject is, that an education in our own, is to be preferred to an education in a foreign country. The principle of patriotism stands in need of the reinforcement of prejudice. and it is well known that our strongest prejudices in favour of our country are formed in the first one and twenty years of our lives. The policy of the Lacedemonians is well worthy of our imitation. When Antipater demanded fifty of their children as hoftages for the fulfillment of a diftant engagement, those wife republicans refused to comply with his demand, but readily offered him double the number of their adult citizens, whose habits and prejudices could not be shaken by residing in a foreign country. Passing by, in this place, the advantages to the community? from the early attachment of youth to the laws and constitution of their country, I shall only remark, that young men who have trodden the paths of science together, or have joined in the fame sports, whether of fwimming, fcating, fishing, or hunting, generally feel, thro' life, fuch ties to each other, as add greatly to the obligations of mutual benevolence.

I conceive the education of our youth in this country to be peculiarly neceffary in Pennfylvania, while our citizens are composed of the natives of for many different kingdoms in Europe. Our schools of learning, by producing one general, and uniform fystem of education, will render the mass of the people more homogeneous, and thereby fit them more easily for uniform and peaceable government.

I proceed in the next place, to enquire, what mode of education we shall adopt fo as to fecure to the state all the advantages that are to be derived from the proper instruction of youth; and here I beg leave to remark, that the only foundation for a useful education in a republic is to be laid in Religion. Without this there can be no virtue, and without virtue there can be no liberty, and liberty is the object and life of all republican governments.

Such is my veneration for every religion that reveals the attributes of the Deity, or a future ftate of rewards and punifhments, that I had rather fee the opinions of Confucius or Mahomed inculcated upon our youth, than fee them grow up wholly devoid of a fystem of religious principles. But the religion I mean to recommend in this place, is that of the New Testament.

It is foreign to my purpole to hint at the arguments which establish the truth of the Christian revelation. My only business is to declare, that all its doctrines and precepts are calculated to promote the happiness of society, and the safety and well being of civil government. A Christian cannot fail of being a republican. The history of the creation of man, and of the relation

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of our species to each other by birth, which is recorded in the Old Testament, is the best refutation that can be given to the divine right of kings, and the strongest argument that can be used in favor of the original and natural equality of all mankind. A Christian, I say again, cannot fail of being a republican, for every precept of the Gospel inculcates those degrees of humility, felf-denial, and brotherly kindnefs, which are directly opposed to the pride of monarchy and the pageantry of a court. A Christian cannot fail of being useful to the republic, for his religion teacheth him, that no man " liveth to himfelf." And laftly, a Christian cannot fail of being wholly inoffensive, for his religion teacheth him, in all things to do to others what he would wifh, in like circumstances, they should do to him.

I am aware that I diffent from one of those paradoxical opinions with which modern times abound; and that it is improper to fill the minds of youth with religious prejudices of any kind, and that they should be left to choose their own principles, after they have arrived at an age in which they are capable of judging for themselves. Could we preferve the mind in childhood and youth a perfect blank, this plan of education would have more to recommend it; but this we know to be impossible. The human mind runs as naturally into principles as it does after facts. It fubmits with difficulty to those restraints or partial³

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discoveries which are imposed upon it in the infancy of Hence the impatience of children to be inrealon. formed upon all subjects that relate to the invisible But I beg leave to ask, why should we pursue world. a different plan of education with respect to religion, from that which we purfue in teaching the arts and fciences ? Do we leave our youth to acquire fystems of geography, philosophy, or politics, till they have arrived at an age in which they are capable of judging for themselves? We do not. I claim no more then for religion, than for the other sciences, and I add further, that if our youth are disposed after they are of age to think for themselves, a knowledge of one system, will be the best means of conducting them in a free enquiry into other systems of religion, just as an acquaintance with one fystem of philosophy is the best introduction to the study of all the other fystems in the world.

Next to the duty which young men owe to their Creator, I wifh to fee a regard to their country, inculcated upon them. When the Duke of Sully became prime minister to Henry the IVth of France, the first thing he did, he tells us, "Was to subdue and forget "his own heart." The fame duty is incumbent upon every citizen of a republic. Our country includes family, friends and property, and should be preferred to them all. Let our pupil be taught that he does not belong to himfelf, but that he is public property. Let him be taught to love his family, but let him be

taught, at the fame time, that he must forfake, and even forget them, when the welfare of his country requires He must watch for the state, as if its liberties it. depended upon his vigilance alone, but he must do this in fuch a manner as not to defraud his creditors, or neglect his family. He must love private life, but he must decline no station, however public or responsible it may be, when called to it by the fuffrages of his fellow citizens. He must love popularity, but he must despise it when set in competition with the dictates of his judgement, or the real interest of his country. He must love character, and have a due sense of injuries, but he must be taught to appeal only to the laws of the state, to defend the one, and punish the other. He must love family honour, but he must be taught that neither the rank nor antiquity of his ancestors, can command refpect, without perfonal merit. He must avoid neutrality in all questions that divide the state, but he must shun the rage, and acrimony of party spir-He must be taught to love his fellow creatures in it. every part of the world, but he must cherish with a more intense and peculiar affection, the citizens of Pennfylvania and of the United States. 1 do not with to fee our youth educated with a fingle prejudice against any nation or country; but we impofe a task upon human nature, repugnant alike to reason, revelation and the ordinary dimensions of the human heart, when we require him to embrace, with equal affection, the whole family of mankind. He must be taught to amais

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wealth, but it must be only to encrease his power of contributing to the wants and demands of the state. He must be indulged occasionally in amusements, but he must be taught that study and business should be his principal pursuits in life. Above all he must love life, and endeavour to acquire as many of its conveniences as possible by industry and economy, but he must be taught that this life " is not his own," when the fafety of his country requires it. These are practicable lessons, and the history of the commonwealths of Greece and Rome show, that human nature, without the aids of Christianity, has attained these degrees of perfection.

While we inculcate these republican duties upon our pupil, we must not neglect, at the fame time, to inspire him with republican principles. He must be taught that there can be no durable liberty but in a republic, and that government, like all other fciences, is of a progressive nature. The chains which have bound this science in Europe are happily unloofed in America. Here it is open to investigation and improvement. While philosophy has protected us by its discoveries from a thoufand natural evils, government has unhappily followed with an unequal pace. It would be to difnonour human genius, only to name the many defects which still exist in the best fystems of legislation. We daily fee matter of a perishable nature rendered durable by certain chemical operations. In like manner, I conceive, that it is possible to combine power in

fuch a way as not only to encrease the happines, but to promote the duration of republican forms of government far beyond the terms limited for them by history, or the common opinions of mankind.

To affift in rendering religious, moral and political instruction more effectual upon the minds of our youth, it will be neceffary to fubject their bodies to phyfical difcipline. To obviate the inconveniences of their studious and sedentary mode of life, they should live upon a temperate dict, confifting chiefly of broths, milk and vegetables. The black broth of Sparta, and the barley broth of Scotland, have been alike celebrated for their beneficial effects upon the minds of young people. They should avoid tasting Spirituous liquors. They should also be accustomed occasionally to work with their hands, in the intervals of Study, and in the buly featons of the year in the country. Moderate fleep, filence, occasional solitude and cleanlines, should be inculcated upon them, and the utmost advantage should be taken of a proper direction of those great principles in human conduct,-fenfibility, habit, imitations and affociation.

The influence of these physical causes will be powerful upon the intellects, as well as upon the principles and morals of young people.

To those who have studied human nature, it will not appear paradoxical to recommend, in this essay, a particular attention to vocal music. Its mechanical 14

effects in civilizing the mind, and thereby preparing it for the influence of religion and government, have been to often felt and recorded, that it will be unneceffary to mention facts in favour of its usefulness, in order to excite a proper attention to it.

I cannot help bearing a testimony, in this place, against the custom, which prevails in some parts of America, (but which is daily falling into difuse in Europe) of crouding boys together under one roof for the purpose of education. The practice is the glogmy remains of monkish ignorance, and is as unfavorable to the improvements of the mind in useful learning, as monasteries are to the spirit of religion. I grant this mode of fecluding boys from the intercourse of private families, has a tendency to make them scholars, but our bufinefs is to make them men, citizens and christians. The vices of young people are generally learned from The vices of adults feldom infect each other. By feparating them from each other, therefore, them. in their hours of relaxation from study, we secure their morals from a principal fource of corruption, while we improve their manners, by fubjecting them to those restraints which the difference of age and fex, naturally produce in private families.

From the observations that have been made it is plain, that I confider it is possible to convert men into republican machines. This must be done, if we expect them to perform their parts properly, in the great machine of the government of the state. That republic is sophifticated with monarchy or aristrocracy that does not revolve upon the wills of the people, and these must be fitted to each other by means of education before they can be made to produce regularity and unifon in government.

Having pointed out those general principles, which should be inculcated alike in all the schools of the state, I proceed now to make a few remarks upon the method of conducting, what is commonly called, a liberal or learned education in a republic.

I fhall begin this part of my fubject, by bearing a teftimony against the common practice of attempting to teach boys the learned languages, and the arts and fciences too early in life. The first twelve years of life are barely fufficient to instruct a boy in reading, writing and arithmetic. With these, he may be taught those modern languages which are neceffary for him to speak. The state of the memory, in early life, is favorable to the acquisition of languages, especially when they are conveyed to the mind, through the ear. It is, moreover, in early life only, that the organs of speech yield in such a manner as to favour the just pronounciation of foreign languages.

Too much pains cannot be taken to teach our youth to read and write our American language with propriety and elegance. The study of the Greek language constituted a material part of the literature

of the Athenians, hence the sublimity, purity and immortality of fo many of their writings. The advantages of a perfect knowledge of our language to young men intended for the professions of law, physic, or divinity are too obvious to be mentioned, but in a state which boasts of the first commercial city in America, I wish to see it cultivated by young men, who are intended for the compting house, for many fuch, I hope, will be educated in our colleges. The time is past when an academical education was thought to be unneceffary to qualify a young man for merchandize. I conceive no profession is capable of receiving more embellishments from it. The French and German languages should likewife be carefully taught in all our Colleges. They abound with useful books upon all fubjects. So important and neceffary arc those languages, that a degree should never be conferred upon a young man who cannot speak or tranflate them.

Connected with the ftudy of languages is the ftudy of Eloquence. It is well known how great a part it conftituted of the Roman education. It is the firft accomplifhment in a republic, and often fets the whole machine of government in motion. Let our youth, therefore, be inftructed in this art. We do not extol it too highly when we attribute as much to the power of eloquence as to the fword, in bringing about the American revolution.

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With the usual arts and sciences that are taught in our American colleges, I with to he a regular course of lectures given upon History and Chronology. The science of government, whether it related to conftitutions or laws, can only be advanced by a careful felection of facts, and thefe are to be found chiefly in history. Above all, let our youth be instructed in the history of the ancient republics, and the progress of liberty and tyranny in the different stares of Europe. I wish likewise to see the numerous facts that relate to the origin and prefent state of commerce, together with the nature and principles of Moncy, reduced to such a system, as to be intelligible and agreeable to a young man. If we confider the commerce of our metropolis only as the avenue of the wealth of the state, the study of it merits a place in a young man's education; but, I confider commerce in a much higher light when I recommend the fludy of it in republican feminaries. I view it as the best fecurity against the influence of hereditary monopolics of land, and, therefore, the furest protection against aristocracy. I consider its effects as next to those of religion in humanizing mankind, and lastly, I view it as the means of uniting the different nations of the world together by the ties of mutual wants and obligations.

Chemistry by unfolding to us the effects of heat and mixture, enlarges our acquaintance with the wonders of nature and the mysteries of art; hence it has become, in most of the universities of Europe, a necessary branch of a gentleman's education. In a young country, where improvements in agriculture and manufactures are so much too be defired, the cultivation of this science, which explains the principles of both of them, should be considered as an object of the utmost importance.

Again, let your youth be instructed in all the means of promoting national prosperity and independence, whether they relate to improvements in agriculture, manufactures, or inland navigation. Let him be instructed further in the general principles of legislation, whether they relate to revenue, or to the prefervation of life, liberty or property. Let him be directed frequently to attend the courts of juffice, where he will have the best opportunities of acquairing habits of comparing, and arranging his ideas by observing the discovery of truth, in the examination of witneffes, and where he will hear the laws of the ftate explained, with all the advantages of that species of eloquence which belongs to the bar. Of fo much importance do I conceive it to be, to a young man, to attend occafionally to the decisions of our courts of law, that I wish to see our colleges established, only in county towns.

But further, confidering the nature of our connection with the United States, it will be neceffary to make our pupil acquainted with all the prerogatives. of the national government. He must be instructed in the nature and variety of treaties. He must know the difference in the powers and duties of the feveral species of ambassadors. He must be taught wherein the obligations of individuals and of states are the same, and wherein they differ. In short, he must accquire a general knowledge of all these laws and forms, which unite the sovereigns of the earth, or separate them from each other.

I beg pardon for having delayed fo long to fay any thing of the separate and peculiar mode of education proper for women in a republic. I am sensible that they must concur in all our plans of of education for young men, or no laws will ever render them effectual. To qualify our women for this purpose, they should not only be instructed in the usual branches of female education, but they should be taught the principles of liberty and government; and the obligations of patriotifm should be inculcated upon them. The opinions and conduct of men are often regulated by the women in the most arduous enterprizes of life; and their approbation is frequently the principal reward of the hero's dangers, and the patriot's toils. Befides, the first impressions upon the minds of children are generaly derived from the women. Of how much confequence, therefore, is it in a republic, that they should think justly upon the great subjects of liberty and government !

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of the mode of Edulation, &c.

The complaints that have been made against religion, liberty and learning, have been, against each of them in i separate state. Perhaps like certain liquors, they should only be used in a state of mixture. They mutually affift in correcting the abuses, and in improving the good effects of each other. From the combined and reciprocal influence of religion, liberty and learning upon the morals, manners and knowledge of individuals, of these, upon government, and of government, upon individuals, it is impossible to measure the degrees of happiness and perfection to which mankind may be raifed. For my part, I can form no ideas of the golden age, so much celebrated by the poets, more delightful, than the contemplation of that happiness which it is now in the power of the legislature of Pennsylvania to confer upon her citizens, by establishing proper modes and places of education in every part of the state,

OBSERVATIONS UPON THE STUDY OF THE LATIN AND GREEK LANGUAGES, AS A BRANCH OF LIBERAL EDUCATION, WITH HINTS OF A PLAN OF LIBERAL INSTRUCTION, WITHOUT THEM, ACCOMMODATED TO THE PRESENT STATE OF SOCIETY, MANNERS, AND GOVERNMENT IN THE UNITED STATES.

It requires the recollection of escapes from a lion and a bear, to encounter the strong and universal prejudice, in favor of the Latin and Greek languages, as a necessary branch of liberal education. If, in combating this formidable enemy of human reason, I should be less successful than the Hebrew stripling was in contending with the giant of the Philistines, I hope it will be ascribed wholly to the want of skill to direct arguments, which, in other hands, would lay this tyrant in the dust.

I shall attempt to discuss this question, by first delivering a few general propositions. I shall afterwards apply these propositions, and answer such arguments as are usually urged in favor of the Latin and Greek languages as necessary parts of an academic education.

I. The great defign of a liberal education is, to prepare youth for usefulness here, and for happiness hereafter.

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II. The proper time for acquiring the necessary branches of knowledge for these important purposes, is in the first eighteen years of life.

III. From four to five years are usually fpent in acquiring a competent knowledge of the Latin and Greek languages.

IV. The knowledge of things always preceeds the knowledge of words. Children difcover the truth of this obfervation every day. They know all the objects around them, long before they are able to call them by their proper names, or even to articulate founds of any kind. It is supposed that children acquire more ideas of things in the first three years of their lives, than they acquire in any thirty years afterwards.

V. The acquisition of words less the ability of the mind to acquire ideas. That: understanding must have uncommon strength, which does not contract an oblique direction by being employed four or five years in learning the Latin or Greek languages.

VI. The difficulty of acquiring those dead languages, and the little pleafure which accompanies the knowledge of them in early life, occasion the principal obstacles to teaching, in masters, and learning, in scholars.

The famous Bufby is faid to have died of "bad Latin;" that is, the ungrammatical versions of his scholars broke his heart. How few boys relish Latin and Greek lessons! The pleasure they sometimes discover in learning them, is derived either from the tales they read, or from a competition, which awakens a love of honour, and which might be difplayed upon a hundred more useful subjects; or, it may arife from a defire of gaining the good will of their masters or parents. Where these incentives are wanting, how bitter does the ftudy of languages render that innocent period of life, which feems exclusively intended for happiness! " I with I had never been born," faid a boy of eleven years old, to his mother : " why, my fon ?" faid his mother. "Becaufe I am born into a world of trouble." " What " trouble," faid his mother finiling, " have you " known, my fon ?"-" Trouble enough, mamma," faid he, "two Latin lessons to get, every day." This boy was not deficient in genius nor in application to books. He often amused himself in reading natural and ancient hiftory, was inquisitive after knowledge of every kind, and was never heard to alk a foolifh or impertinent question.

VII. Many fprightly boys of excellent capacities for ufeful knowledge, have been fo difgufted with the dead languages, as to retreat from the drudgery of fchools, to low company, whereby they have become had mem-

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bers of fociety, and entailed mifery upon all who have been connected with them.

VIII. The Latin and Greek languages are the first tests of genius in schools. Where boys discover a want of capacity for them, they are generally taken from school, or remain there the butts of their companions. Dr. Swift early discovered a want of taste for the dead languages. It would be unjust to mention this fact, without ascribing it to the voice of reason and nature speaking in this great man. He had no relish for the huses of literature. Truth and knowledge were alone commensurate to the dignity and extent of his mind.

IX. The fludy of fome of the Latin and Greek classics is unfavourable to morals and religion. Indelicate amours, and shocking vices both of gods and men, fill many parts of them. Hence an early and dangerous acquaintance with vice; and hence, from an affociation of ideas, a diminshed respect for the unity and perfections of the true God. Those classics which are free from this centure, contain little else but the histories of murders, perpetrated by kings, and related in fuch a manner as to excite pleasure and admiration. Honce the universal preference of the military character to all others.-To the fame caufe we may aferibe the early passion for a cockade in school boys; and the the frequent adoption of the principles and vices of

armies, by young men who are destined for other professions.

X. The fludy of the Latin and Greek languages is improper in the prefent flate of fociety and government in United States. While Greek and Latin are the only avenues to fcience, education will always be confined to a few people. It is only by rendering knowledge universal, that a republican form of government can be preferved in our country.

I shall hereafter mention other reasons why the study of these languages is improper in a peculiar manner in the United States.

XI. The cultivation of the Latin and Greek languages is a great obstacle to the cultivation and perfection of the English language.

XII. It is likewife one of the greatest obstructions that has ever been thrown in the way of propagating useful knowledge.

On each of these two last propositions I shall treat more fully in another place.

I proceed now to confider the principle arguments that have been urged in favour of the Latin and Greek languages, as neceffary parts of a liberal education.

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1. A knowledge of the Latin or Greek grammar, it has been faid, is necessary for our becoming acquainted with English grammar. There was a time when the authority of a great name imposed this opinion upon me, and even led me publicly to adopt it, but I am now fatisfied that it is wholly destitute of truth. I have known many bachelors and masters of arts, who were incorrect English scholars, and many persons of both sexes, ignorant of the dead languages, who both wrote and spoke English, agreeably to the strictest rules of modern grammar. Indeed I cannot help ascribing the late improvements in the English language chiefly to the neglect of the Latin and Greek languages. The Greek is supposed to be the most perfect language both in its construction and harmony, that has ever been fpoken by mortals. Now this language was not learned through the medium of any Hence it was acquired and fpoken with other. equal propriety by all ranks of people, and not lefs by an apple woman, than by the celebrated orators of In that highly favoured nurfery of human Greece. genius, the avenues to knowledge were not obstructed by two or three dead, or even foreign languages; nor was the precious feafon of youth, when memory is most faithful, and curiofity most active, mis spent in learning words. Hence the fame of ancient Greece in arts and fciences, and hence the fublimity of the orations of Demosthenes, and of the poems of Homer. There was nothing in the composition

of the block, or in the fluxibure of the nerves of the ancient Greeks, which gave them a pre-eminence over the reft of mankind. It arole entirely from their being too wife to waite the important years of education in learning to call fubftances, by two or three different names, instead of studying their qualities and uses. The construction of the English, differs materially from that of the Latin and Greek languages; and the attempt to accommodate it to the Greek and Roman grammars has checked its improvement in many inflances. I hope to prove hereafter, that a knowledge of grammar, like a knowledge of pronunciation, should be learned only by the ear in early life. The practice of teaching boys English grammar, through the medium of a dead language, is as abfurd, as it would be for a parent to force his child to chew pebbles or mahogany, in order to prepare its gums or teeth to mafficate bread and meat.

2. We are told that the Roman and Greek authors are the only perfect models of tafte and eloquence, and that it is neceffary to ftudy them, in order to acquire their tafte and fpirit. Strange language indeed i what ! did nature exhauft herfelf in Greece and Rome ? Are the ancients the only repositories of the great principles of tafte and genius? I reject the supposition; and will venture to affert, in opposition to it, that we shall never equal the sublime and original authors of antiquity until we cease to study them.

25 OBSERVATIONS ON THE STUDY OF THE

Nature is always the fame. Let us yield to her infpiration alone, and avail ourfelves of allufions to the many difcoveries which have lately been made in her works. Shakespeare owes his fame, as a sublime and original poet, to his having never read (as is generally believed) a Latin or Greek author. Hence he spoke from nature, or rather, nature spoke thro' him. But it should be remembered that art, as well as nature feeds the flame of genius. By neglecting the ancients, we may borrow imagery from the many ufeful and well known arts which have been the inventions of modern ages, and thereby furpass the antients in the variety and effect of our compositions. It is to this passion for ancient writers that we are to ascribe the great want of originality, that marks too many of the poems of modern times. A judicious critic has observed, that the deferiptions of Spring, which are published every year in England, apply chiefly to the climates of Greece and the neighbourhood of Rome. This is the natural. effect of a fervile attachment to the ancient poets. It infensibly checks invention and leads to imitation. The pleafure with which the poems of the shoemaker, the milk-maid, and the Ayreshire ploughman, have been read by all classes of people, proves that an acquaintance with the Greek or Roman poets, is not necessary to inspire just ideas, or to produce harmony in poetry. Dr. Swift, as an author, owes nothing to the ancients. He has attained to what Pope calls the "majefty" and what Lord Shaftesbury calls the "divinencis" of fimplicity in writing. All his compositions, exemplify his own perfect definition of ftyle. They consist of " proper words in their proper places." I have heard of a learned gentlemen in Scotland, who, when any of his friends proposed to introduce a stranger to him, asked only, as a proof of his taste for composition, whether he admired Dr. Young's Night Thoughts? Were I to receive a visitor upon similar terms, my only question should be, "does he admire the style of Dr. " Swift?"

Under this head I fhall only add, that the moft intimate acquaintance with the Roman and Greek writers will not produce perfection of ftyle in men who are devoid of tafte and genius. Hence we fometimes find the moft celebrated teachers of the Latin and Greek languages extremely deficient in Englifh compofition. I acknowledge that Milton, Addifon, Hume, Middleton and Bolingbroke, whofe ftyles have been fo much admired, were all Latin and Greek fcholars. But in these authors, a native ftrength of genius, and tafte preferved their writings from the affectation and obfcurity which are imparted to English compositions, by an adherence to the grammars and arrangement of the Latin and Greek languages.

3. It has been faid that we cannot know the use or meaning of those numerous English words which are derived from the Latin and Greek, without a knowledge of those languages. To this I may answer, that

what proves too much, proves nothing at all. The ar ument that has been mentioned, proves that a knowledge of the Celtic, the Saxon, the German, the French, the Italian and the Dutch, is necessary to enable us to understand the use of many English words; for fir the greatest part of them are derived from those languages. But I object further to this argument, that if a knowledge of the derivation of English words from the Greek and Latin languages, fhould be followed by a strift regard to their original meaning, it would lead us into many miftakes. The derivation of the word "angel" would lead us to contemplate a meffenger, instead of a perfect finite intelligence. The derivation of the word "rebellion" would lead us to contemplate a war commenced by a conquered people : inftead of a refiftance to the just authority of government. Many other inftances of fimilar incongruity might be mentioned between the meaning of certain Englifo words, and their Roman and Greek originals. I coucia le therefore that a knowledge of the derivation of words is not necessary to teach us their proper use and meaning. Cuftom, which is the law and rule of fpeech, and what is, instead of what should be common, will always govern the use of words. Where custom is unknown, modern English dictionaries will fupply its place.

Here I beg leave to repeat that the study of the Greek and Latin languages by the English nation has been one of the greatest obstructions, that ever

has been thrown in the way of the propagation of useful knowledge. By rendering our language unintelligible to the greatest part of the people who hear or read it, it has made it an improper vehicle of instruction. The orations of Demosthenes, we are told, were, like earthquakes in ancient Greece. They moved whole nations. The reafon of this is plain. He never used a single word in any of them, but what was alike intelligible to all classes of his hearcrs. The effect of Indian elequence upon the councils and wars of the favages in America, depends wholly upon its being perfectly underflood and felt by every member of their communities. It has often been remarked that in England no play will fucceed without action, while fentiment alone infures the loudest claps of applause, in the theatres of France. The reason of this is obvious. The English language requires action to translate it, to half the common audience of a theatre, whereas the French language, which is uniform and stationary, is understood, and, of course, the sentiment which is conveyed by it, is felt and enjoyed by all who hear The writings of Voltaire are quoted by the it. hairdreffers and milliners of Paris, because they are written in the fimple language of the country, while many of the most celebrated British authors cannot be understood by common readers, without the help of a dictionary or interpreter. Richardson and Fielding are an exception to this remark. They are alike intelligible and acceptable to the learned and

unlearned, inafmuch as they have conveyed all their ideas in plain, but decent English words. The popularity of the methodist preachers may be ascribed in part to their speaking in a language that is intelligible to the common people. It is true many of them are deficient in education, but this deficiency appears more in an ignorance of the construction of the English language, than in the proper use of English words, and perhaps this may be ascribed chiefly to their extempore mode of preaching. It is happy for fome of those churches where the Latin and Greek languages are confidered as necessary parts for education in their clergy, that part of the public worfhip of God is confined to reading the fcriptures, and to forms of prayer, both of which are written in English, and are intelligible to every class of hearers. Such congregations are not left to the mercy of their preachers in every part of divine fervice. A pious woman in London who heard her minister speak of the Deity, by the name of the great Philanthropist, asked when fhe came home, what heathen god Philanthropist was? There are few fermons composed by Latin and Greek fcholars in which there are not many hundred words, that are equally unintelligible to a majority of their hearers. Hence I cannot help thinking that were John the Baptist to appear again in our world, and to send to some of our doctors of divinity, or to many of our young preachers to enquire after the figns of their divine mission, few of them could adopt the answer

of our Saviour and fay that to the poor the golpel was • preached. It will require a total ignorance of the Latin and Greek languages, or an uncommon mixture of good fenfe and piety in a preacher who is acquainted with them, to addrefs an audience in fuch a manner as to be perfectly underftood by the illiterate part of them.

I wish to press the confiderations that have been mentioned under this head, home to the feelings of the friends of virtue and religion. It has been demonstrated, that the study of the ancient classics is hurtful to morals. It is equally plain that the corruption of our language by the constant substitution of words of Greek and Latin origin, to those which had become familiar and universal, from long usage, has greatly retarded the progress of knowledge of all kinds, but in a more especial manner, a great proportion of that species of it which is delivered from the pulpit. appeal to the confciences of ministers of the gospel of all denominations, whether, instead of exposing their their candidates for the ministry, to temptation from that kind of learning " which puffeth up, without " edifying," it would not be better to direct them to employ the time which is usually mif-pent in acquiring it, in studying the scriptures, and in making themselves masters of the English language? It is impossible to tell what great improvements would be made by these means in moral happiness in the United States.

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4. We are told that a knowledge of the Greek and Roman languages, is neceffary to enable us to understand the frequent allusions that are made by English writers to the mythology of those ancient nations. To this I answer, that the lefs we know of this subject. the better; for what is the hiftory of the ancient fables, but an agreeable description of frauds-rapes- 1 murders, which, while they please the imagination, shock the moral faculty? It is high time to cease from idolizing the idolatry of Greece and Rome. Truth alone is knowledge, and spending time in studying Greek and Roman fictions, is only labouring to be more ignorant. If there is any moral contained in these fictions, it is so much involved in obscurity, as not to be intelligible to a young man at that time of life in which he usually becomes acquainted with them. Happy will it be for the present and future generations, if an ignorance of the Latin and Greek languages, should banish from modern poetry, those difgraceful invocations of heathen gods, which indicate no lefs a want of genius, than a want of reverence for the true God. I shall only add in this place, that the best writers in the English language feldom borrow aliufions from the mythology of the Greek or Roman nations. Richardfon and Fielding have passed them by, and hence arifes another reason why the works of those authors are fo univerfally intelligible and acceptable to to all classes of readers.

LATIN AND GREEK LANGUAGES.

5. It has been faid, that the Latin language has become a necessary part of liberal knowledge, inasmuch as the European nations have by common confent made it the vehicle of their difcoveries. This · argument had fome weight while science confifted only learning what was known; but fince the enquiries of philosophers have been directed to new objects of observation and experiment, the Latin language has not been able to keep pace with the number and rapidity of their difcoveries.; Where shall we find Latin words to convey just ideas of the many terms which electricity-chemistry-navigation-and many other fciences have introduced into our modern languages? It is from experience of the infufficiency of the Latin language for this purpose, that most of the modern nations of Europe have been obliged to adopt their own languages, as the vehicles of their difcoveries, in fcience. If this argument had been acknowledged to have weight in Europe, it fhould, from local circumstances, have no weight in America. Here we have no intercourse with any part of Europe, except her commercial seaports, and in these, all business is transacted in modern languages. America, with respect to the nations of Europe, is like the new planet, with refpect to those, whose revolutions have long been deferibed in the folar fystem. She is placed at too great a distance from most of them, to be within the influence of a reciprocal exchange of the rays of knowledge. Like a certain animal, defcribed by the

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naturalists, she must impregnate herself. But while she retains a friendly intercourse with Great Britain, all the valuable discoveries which are published in Latin, in any part of Europe, will be transmitted to her through the medium of English translations.

6. It has been faid that a knowledge of the Latin and Greek languages is necessary to the learned profeffions of law-physic-and divinity. To this I anfwer, that the most useful books in each of these professions are now translated, or written in English, in confequence of which, knowledge in law-phyficand divinity has been greatly multiplied and extended. I fee no use at present for a knowledge of the Latin and Greek languages, for a lawyer, a physician, or a divine, in the United States, except it be to facilitate the remembrance of a few technical terms which may be retained without it. Two of the most celebrated and fuccefsful lawyers in the United States, are strangers to the Latin language. An eminent physician, who fpent feveral of the years of his youth in learning this language, has affured me, that he had not more than three times in his life found any advantage from it. Very few phylicians, I believe, (professor of medecine only excepted, who are obliged to review Latin theses previously to their publication) retain their knowledge of this language, after they become established in businefs, and if they do, it is preferved lefs from necessity, than from vanity, or a defire of reviving, by reading

the claffics, the agreeable ideas of the early and innocent part of their lives.

I know that it is commonly believed, that a knowledge of the Greek language, is necessary to enable a divine fully to understand the New Testament. But I object to this opinion, that the most useful and necessary parts of this divine book are intelligible to the lowest capacities in its present English dress: and I believe further, that there have been as many difputes among the critics, about the meaning of words, and about editions and translations of the New Testament, as there have been among unlearned christians about the meaning of its obscure and difficult passages. If a knowledge of the Greek language be neceffary to enable a divine to understand the New Testament, it follows, that a critical knowledge of all the dialects in which the different parts of it were originally composed, is equally necessary for the fame purpofe; and, if necessary to a divine, why not to the common people, for they are equally interested in all the truths of revelation? The difficulties and abfurdities into which we are led by this proposition, are too obvious to be mentioned.

We are very apt to forget the *age* in which we live. In the fifteenth century, all the knowledge of Europe was locked up in a few Greek and Latin manufcripts. In this confined state of knowledge, an acquaintance with the Latin language was thought to be necessary

to civilize the human mind—hence the teachers of it acquired the title of " professors of humanity" in the European universities. But we live in an age in which knowledge has been drawn from its dead repositories, and diffused by the art of printing, in living languages, through every part of the world. Humanity has therefore changed fides. Her gentleness is now altogether in favour of modern literature.

We forget not only the age, but the country likewife in which we live. In Europe many ancient conflitutions—laws—treaties—official letters—and even private deeds, are written in Latin—hence the knowledge of it has fometimes been found ufeful for flatesmen and flawyers—but all the conflitutions, laws, treaties, public letters, and private deeds of the United States, are written in Englifh; and of courfe a knowledge of the Latin language is not neceffary to underfland them. It is therefore as ufelefs in America, as the Spanifh great-coat is in the ifland of Cuba, or the Dutch foot-flove, at the Cape of Good Hope.

We forget further the difference of occupation between the inhabitants of the prefent, and of the fifteenth century. Formerly public prayers and war were the only bufinefs of man: but fince agriculture, manufactures and commerce, have afforded fuch different and profitable employments to mankind, there cannot be greater folly than to learn two languages which are no ways connected with the advancement of any of them. . -.

" I once thought health, the greatest blessing in the « world," faid Mr. Rittenhouse to the author of this effay, " but I do not think fo now. There is one thing " of much greater value, and that is time." This opinion of our excellent American philosopher, is true every where, but in a more efpecial manner in the Here the opportunities of acquiring United States. knowledge and of advancing private and public intereft are fo numerous, and the rewards of genius and industry so certain, that not a particle of time should be mis-fpent or loft. We occupy a new country. Our principal business should be to explore and apply its refources, all of which prefs us to enterprize and hafte. Under these circumstances, to spend four or five years in learning two dead languages, is to turn our backs upon a gold mine, in order to amuse ourselves in catching butterflies.

It is agreeable to hear of the progress of human reason in the gradual declension of the usual methods of teaching the Latin and Greek languages within the last forty years in Europe. Formerly boys were obliged to commit whole volumes of Latin and Greek poetry to memory, as the only means of learning those languages. Nor was this all; they were obliged to compose Latin verses without the least regard being paid to genius, or take for poetry. The last act of school tyranny, was to compel boys to read the ancient classics without the help of translations. All these methods of teaching the dead languages are now laid

afide. The next ray of truth that irradiates human reafon upon this fubject, I hope will teach us to reject the Latin and Greek languages altogether, as branches of a liberal education.

The progress of human reason should likewise be acknowledged in having banished Latin and Greek quotations from fermons, and other religious tracts, which are intended for the common people. Such quotations are to be found only in books of science, addressed to the members of the learned professions, or to perfons who are supposed to be acquainted with the Latin and Greek languages.

There are certain follies, like the objects of fight, which cannot be feen when the eye is placed too near We are struck with pity and horror in con-'them. templating the folly difcovered by our anceftors in their military expeditions to the holy land of Palestine. The generations which are to follow us, will probably view our partiality to the claffic ground of Greece and Rome, with fimilar emotions. We laugh at the credulity of those nations who worshipped apes and crocodiles, without recollecting, that future ages will treat our superstitious veneration for the ancient poets and orators, with the fame ridicule. Posterity, in reading the history of the American revolution, will wonder that in a country where fo many exploits of wifdom and virtue were performed, the human understanding was fettered by prejudices in favour of the Latin and Greek

languages. But I hope with the hiftory of this folly, fome hiftorian will convey to future generations, that many of the most active and useful characters in accomplishing this revolution, were strangers to the formalities of a Latin and Greek education.

It is high time to diftinguish between a philosopher, and a scholar, between things and words. "He " was educated at the college of ——" said a gentleman to his friend, speaking of a young man who was known to them both. "You mean Sir," replied his friend, "he got his learning at the college of ——; but " as to education, he appears to have received none " any where." This young man was an excellent Latin and Greek scholar, but knew nothing of men, or things.

Let it not be fuppofed from any thing that has been here advanced, that I with the knowledge of the Latin and Greek languages to be extinct in the world. Far from it. My with is to fee it preferved, like the knowledge of law, or medicine, as a diftinct profession. Let the perfons, who devote themselves to the study of these languages, be called linguists, or interpreters, and let them be paid for their translations and explanations of Latin and Greek books, and other compositions in those languages. No more confidence will be placed by the public, in the members of this new profession, than is daily placed in lawyers and physicians, in matters of much greater importance; nor will more

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credit be given to them, than we are accustomed to give to travellers and historians. There can be no more reason why every man should be capable of translating or judging of a Latin or Greek book, than there can be why every man should be a lawyer or a physician, or why he should be obliged to visit Constantinople or Grand Cairo, in order to become acquainted with the situation of these two great cities. If this method of preferving and applying the dead languages should be adopted, young men will learn them as they do law and physic, by ferving an apprentices of the source of the s

The following advantages would immediately attend the rejection of the Latin and Greek languages as branches of a liberal education.

1. It would improve, and finally perfect the English language, by checking the increase of those superfluous words which are derived from the Latin and Greek languages. What use have we for festivity—celebrity —hilanity—amenity—and a hundred 'other duplicate words, with which Johnson and Harris have corrupted and we kened our language, and which are unintelligible to three fourths of common English readers? The rejection of the ancient languages, would further banish Latin and Greek words, such as, exit, fecit, excudit, pinxit, acme, finis, bona fide, ipso facto, ad valorem, and a hundred others, equally difgusting, from English compositions. It would moreover preferve our language from encroachments of French and Italian words, fuch as eclat—amateu:—douceur—en paffant —corps—dilettanti—con cuore—piano and many others, all of which impair the uniformity and dignity of the English language.

2. The rejection of the Latin and Greek langauges from our schools, would produce a revolution in science, and in human affairs. That nation which shall first shake off the setters of those ancient languages, will advance further in knowledge, and in happines, in twenty years, than any nation in Europe has done, in a hundred.

3. It will have a tendency to deftroy the prejudices of the common people against schools and colleges. The common people do not defpise schoolars, because they know more, but because they know less than themfelves. A mere scholar can call a horse, or a cow, by two or three different names, but he frequently knows nothing of the qualities, or uses of those valuable animals.

4. It would be the means of banifhing pride from our feminaries of public education. Men are generally molt proud of those things that do not contribute to the happiness of themselves, or others. Useful knowledge generally humbles the mind, but learning, like sine clothes, feeds pride, and thereby hardens the human heart.

5. It would greatly encrease the number of fludents in our colleges, and thereby extend the benefits of education through every part of our country. The excellency of knowledge would then be obvious to every body, because it would be constantly applicable to some of the necessary and useful purposes of life, and particularly to the security and order of wise and just government.

6. It would remove the present immense disparity which fublifts between the fexes, in the degrees of their education and knowledge. Perhaps one cause of the mifery of many families, as well as communities, may be fought for in the mediocrity of knowledge of the women. They should know more or lefs, in order to be happy themselves, and to communicate happines By ceafing to make Latin and Greek a to others. neceffary part of a liberal education, we open the doors for every species of improvement to the female part of fociety :---hence will arife new pleafures in their company,-and hence, too, we may expect a general reformation and refinement, in the generations which are to follow us; for principles and manners in all focieties are formed chiefly by the women.

It may be asked here, how shall we employ those years of a boy, that are now usually spent in learning the Latin and Greek languages? I shall endeavour to answer this question by laying down a short plan of a liberal English education. In this undertaking, I shall ftrive to forget for a while all the fystems of education I have ever feen, and fuggest such a one as is founded in the original principles of action in the human mind.

1. Let the first eight years of a boy's time be employed in learning to speak, spell, read and write the English language. For this purpose, let him be committed to the care of a master, who speaks correctly at all times, and let the books he reads, be written in a fimple and correct style. During these years, let not an English grammar by any means be put into his hands. It is to most boys, under even twelve years of age, an unintelligible book. As well might we contend, that a boy fhould be taught the names and number of the humours of the eye, or the muscles of the tongue, in order to learn to fee, or to fpeak, as be taught the English language, by means of grammar. Sancho, in attempting to learn to read, by chewing the four and twenty letters of the alphabet, did not exhibit a greater abfurdity, than a boy of feven or eight years old does, in committing grammar rules to memory, in order to understand the English language. Did we wish to deferibe a ship, so as to have all its parts perfectly and fpeedily known, would we begin by defcribing its detached parts in a ship-yard, or a rope-walk? Or would we not first fix every part in its proper place, and then explain the names and uses of these parts, by shewing their subserviency to each other? In like manner, I affirm, that the construction of our language should be learned by a careful attention to the places and uses of the

different parts of speech in agreeable compositions, and not by contemplating them in a disjointed state in an English grammar. But I will add further, that grammar should be taught only by the ear. Pronounciation, which is far more extensive, and difficult, is learned only in this way. To teach concord in the arrangement of words, let the master converse with his pupils as well as hear them read, and let him distinctly mark and correct every deviation from grammatical propriety which they utter. This method of teaching grammar has been tried with fuccefs in the families of feveral gentlemen of my acquaintance. It is both rational, and practicable. It has, morcover, the authority of the wife Greeks to recommend it. Homer, Xenophon, Demofthenes and Longinus, I believe, were all taught to speak, read, and write their native language, without the incumbrance of a Greek grammar. I do not mean by any thing that has been advanced, to infinuate that our pupil should not be instructed in the principles and laws of our language. I have referved this part of knowledge to a much later period of his youth, at which time he will acquire it almost as foon as Molicre's " Citizen turned Gentleman," learned to diftinguish between profe and poetry. He will find that he is in possession of this knowledge, and that the business of his mafter will be only to give names to things with which he is already acquainted.

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Under this head, I shall only add, that the perfection of the ear, as an avenue of knowledge is not fufficiently known. Ideas acquired through that organ, are much more durable, than those acquired by the eyes. We remember much longer what we hear, than what we see; hence, old men recollect voices, long after they forget faces. These facts are capable of great application to the business of education.

Having provided our pupil with a vehicle of knowledge, by teaching him to read and write, our next bufinefs fhould be to furnish him with ideas. Here it will be neceffary to remark, that the human mind in early life first comprehends substances. From these it proceeds to actions, from actions to qualities, and from qualities to degrees. Let us therefore in education, follow this order of nature, and begin by instructing our pupil in the knowledge of substances, or things. For this purpose, let us initiate him into the knowledge of the globe on which he exists, by teaching him

2. Natural history. This study is simple and truly delightful. Animals of all kinds are often the subjects of conversation and disputes among boys in their walks and diversions. But this is not all; this study is the foundation of all useful and practical knowledge in agriculture, manufactures and commerce, as well as in philosophy, chemistry, and medecine. By making

natural hiftory the first study of a boy, we imitate the conduct of the first teacher of man. The first lesson that Adam received from his Maker in Paradife, was upon natural history. It is probable that the dominion of our great progenitor over the brute creation, and every other living creature, was founded upon a perfect knowledge of their names and qualities, for God appears in this, as well as in other instances, to have acted by the instrumentality of human reaton.—Where a museum is wanting, all that is neceffary for a boy to know of animals and fishes—infects —trees and herbs, may be taught by means of prints.

3. Geography, is a fimple fcience, and accommodated to the capacity of a boy under twelve years of age. It may be perfectly underftood by means of cards-globes-and maps; for each of thefe modes of conveying inftruction, feizes upon the fenfes and imagination. The frequent application which a boy is obliged to make of his knowledge in geography, in reading, and conversation, will foon fix it upon his memory, and from the *time* and *manner* in which he will acquire it, he will never forget it.

I allow four years to be employed in acquiring these two fundamental branches of knowledge. After our pupil has become tolerably well acquainted with them, he should be instructed in the 4. French and German languages. These will be equally neceffary, whether commerce—physic—law or divinity is the pursuit of a young man. They should be acquired only by the ear. Great care should be taken not to permit him to learn these languages before he is *twelve* years old, otherwise he will contract fo much of the French and German accent as will impair the prononciation of his native tongue.

5. Arithmetic, and some of the more simple branches of the mathematics should be acquired between the twelfth and sourceenth years of his life.

6. Between his fourteenth and eighteenth years, he should be instructed in grammar—oratory—criticism—the higher branches of mathematics—philosophy —chemistry—logic—metaphysics—chronology—history—government—the principles of agriculture, and manufactures—and in every thing else that is necessary to qualify him for public usefulness, or private happiness.

7. I know it is common to introduce what is called Moral Philosophy into a fystem of liberal education. The name of this science is derived from the Pagan schools. The study of it constituted a material part of their learning. Instead of continuing this anti-christian mode of teaching morals, I would propose a course of lectures to be given upon the evidences, doctrines and precepts of the Christian religion. The last part of this

courfe might be made to include the whole circle of moral duties, and from the connection it would have with the evidences and doctrines of Christanity it would produce an impression upon the understanding which no time or circumstances would ever wear away. It is by neglecting to teach young men the Christian religion as a science, or by the separation of its morals from its principles, that colleges have become in fo many instances the nurferies of infidelity.

Extract of a letter from the reverend Mr. James Muir, principal of the academy of Alexandria in Virginia, to the Author, dated July 29, 1791.

" I HAVE read with fatisfaction, in the Mufeum, "your obfervations on fludying the learned languages. There is little tafte for them in this place. In our academy, where there are near ninety fludents, not above nineteen are poring over Latin and Greek. One of thefe nineteen was lately addreffed by a fludent of Arithmetic in the following language—Pray, Sir, can you refolve me, by your Latin, this queftion, If one bufhel of corn coft four fhillings, what coft fifty bufhels ?—A demand of this kind from a youth, is to me a proof of the tafte of Americans in the prefent day, who prefer the ufeful to the ornamental." ANSWER to the foregoing letter, containing further observations upon the study of the Latin and Greek languages.

DEAR SIR,

I gave me great pleasure to find, by your polite letter of July 29th, that my opinions, upon the subject of the Latin and Greek languages, have met with your approbation; and that the young gentlemen who compose your academy had discovered so much good fense in preferring useful to useles, or, at best, ornamental literature.

I have read all the replies that have been published to my opinions : and am more confirmed in the truth of them, than ever, by the weakness and fallacy of the objections that have been made to them. The ftyle of fome of those replies has established one of my propositions in the most forcible manner. It has demonstrated that a knowledge of the dead languages does not confer taste or elegance in the English language, any more than it does good breeding, or good temper. I except from this remark the candid and ingenious letters published in the Federal Gazette, faid to be written by Dr. Stuber, of this city.

To perfuade men, that white is black, or black, white, it is neceffary fometimes to make them believe that they are grey. The mind requires a refting point, in passing from error to truth, upon many subjects. I shall avail myself of this weakness in human nature, and take the liberty of fuggesting a method of teaching the Latin and Greek languages, which I conceive, will be accommodated to the present state of the prejudices of our countrymen in their favour.

The late Dr. Franklin used to say, that the learning of a dead or foreign language might be divided into ten parts. That it required five only to learn to read it-feven to speak it-and the whole ten to write it. Now, when we confider how feldom we are called upon to *speak* or write the Latin or Greek languages, This fuppose we teach our boys only to read them. will cut off one half the difficulty of learning them, and and enable a boy to acquire as much of both, in two years, as will be neceffary for him. He will, moreover, by this plan, be able to read more of the classics than are read at prefent in our fchools. The claffics are now read only for the fake of acquiring a knowledge of the construction of the languages in which they are written; but by the plan I have propoled, they would be read for the fake of the matter they contained, and there would be time enough to read each book from its beginning to its end. At prefent, what boy ever reads all the Ænead of Virgil, or the Iliad of Homer ? In fhort, few boys ever carry with them from fchool, any thing but a fmattering of the claffics. They peep into a dozen of them; but are taught to attend to every thing they contain, more than to the *Jubjects* which are treated of by them.

In the way I have proposed, a boy would be able to translate all the Latin and Greek books he would meet with, and from the perfect knowledge he would acquire of them at school, he would probably retain that knowledge as long as he lived.

To carry this mode of teaching the Latin and Greek languages into effect, it is abfolutely neceffary that a boy should first be instructed in bistory and geography. Let him read an account of the rife, progress, and fall of the Greek and Roman nations; and examine, upon maps, the countries they inhabited and conquered, and their languages will foon become interesting to him. The neglect of this natural and eafy mode of instruction, is an inversion of all order. The absurdity of it was once happily exposed by a boy of eight years old, who, with a Latin Grammar in his hand, gravely afked his father, "who made the Latin language, and what " was it made for?" Had this boy been previously instructed in the Roman history, he would not have asked fuch a question. Confidering his age, it was as natural, as it was foolish.

There is no play common among children, that ftrikes me with an idea of half the folly that I am ftruck with, every time I look into a Latin fchool, and fee thirty or forty little boys pinioned down to benches, and declining nouns, conjugating verbs, or writing Latin verfions. I confider the higheft attainment in this kind of learning, as nothing more than fuccefsful dof-

tards, but far less useful than those which are exhibited in the usual athletic_excercises of school boys.

By adopting the plan I have proposed, a boy will not open a Latin or Greek book, till he is fourteen or fifteen years old; fo that the dead languages, instead of being the first, will be the last things he will learn at school. At this age, he will learn them with half the trouble, and understand them much better than he would have done at nine or ten years of age. For though languages are acquired with most case by the ear under puberty, yet they are acquired most easily by the eye, after that period of life. But there is another advantage in making the Latin and Greek languages the last things that are taught at school. The bent of a young man's inclinations is generally known at fourteen or fifteen, and feldom fooner. Now if he incline to commerce-to a military-or a naval life—or to a mechanical employment, in all of which it is agreed, Latin and Greek are unnecessary, it will be improper to detain him any longer at fchool, by which means much money will be faved by the parents, and much time faved by 'the boy, both of which are wasted by the present indiscriminate and preposterous mode of teaching the dead languages.

The idea of the neceffity of a knowledge of those languages, as an introduction to the knowledge of the English language, begins to lose ground. It is certainly a very absurd one. We have several English Ichools in our city, in which boys and girls of twelve and fourteen years old have been taught to fpeak and write our native language with grat grammatical propriety. Some of these children would difgrace our bachelors and masters of arts, who have spent four or five years in the study of the Latin and Greek languages in our American colleges. It is true, these Latin and Greek scholars, after a while, acquire a knowledge of our language: but it is in the same slow way, in which some men acquire a knowledge of the forms of good breeding. Three months instruction will often impart more of both, than a whole life spent in acquiring them simply by imitation.

Where there is one Latin fcholar, who is obliged, in the courfe of his life, to *fpeak* or write a Latin fentence, there are hundreds who are not under that neceffity. Why then fhould we fpend years in teaching that which is fo rarely required in future life? For fome years to come, the reading of the language, may be neceffary; but a young man of fourteen or fifteen, may be taught to do this perfectly in one year, without committing a fingle grammar rule to memory, or without *fpoiling his hand by* writing a fingle verfion.

Much more, in my opinion, might be faid in favour of teaching our young men to *fpeak* the Indian languages of our country, than to *fpeak* or write Latin. By their means, they might qualify themfelves to become ambaffadors to our Indian nations, or introduce among them a knowledge of the bleffings of civilization and religion.

We have lately feen a large portion of power wrefted from the hands of kings and priefts, and exercifed by its lawful owners. Is it not high time to wreft the power over the education of our youth, out of the hands of ignorant or prejudiced fchoolmafters, and place it in the hands of men of more knowledge and experience in the affairs of the world? We talk much of our being an *enlightened* people; but I know not with what reafon, while we tolerate a fystem of education in our fchools, which is as difgraceful to the human understanding as the most corrupt tenets or practices of the pagan religion, or of the Turkifh government.

With great respect for your character, as well as for your present honourable and useful employment, I ara, dear fir,

Your friend and most obedient servant. BENJAMIN RUSH. Philadelphia, August 24, 1791. THOUGHTS UPON THE AMUSEMENTS AND PUNISH, MENTS WHICH ARE PROPER FOR SCHOOLS. AD-DRESSED TO GEORGE CLYMER, E3Q.

DEAR SIR,

THE last time I had the pleasure of being in your company, you did me the honour to request my opinion upon the AMUSEMENTS and PUNISH-MENTS which are proper for schools The subjects are of a very opposite nature, but I shall endeavour to comply with your wishes, by fending you a few thoughts upon each of them. I am sure you will not reject my opinions because they are contrary to received practices, for I know that you are accustomed to think for yourself, and that every proposition that has for its objects the interests of humanity and your country, will be treated by you with attention and candor.

I shall begin with the subjects of AMUSEMENTS. Montesquieu informs us that the exercises of the last day of the life of Epaminondas, were the same as his amusements in his youth. Herein we have an epitome of the perfection of education. The amusements of Epaminondas were of a military nature; but as the profession of arms is the business of only a sum and mankind, and happily much less neceffary in the United States than in ancient Greece, I would propose that the amusements of our youth, at school, should consist of such exercises as will be most subservient to their suture employments in life. These are; 1. agriculture; 2. mechanical occupations; and 3. the business of the learned professions.

I. There is a variety in the employments of agriculture which may readily be fuited to the genius, tafte, and ftrength of young people. An experiment has been made of the efficacy of thefe employments, as amufements, in the Methodift College at Abington, in Maryland; and, I have been informed, with the happieft effects. A large lot is divided between the fcholars, and premiums are adjudged to those of them who produce the most vegetables from their grounds, or who keep them in the best order.

II. As the employments of agriculture cannot afford amusement at all feasons of the year, or in cities I would propose, that children should be allured to to seek amusements in such of the mechanical arts as are fuited to their strength and capacities. Where is the boy who does not delight in the use of a hammer—a chissel—or a saw? and who has not enjoyed a high degree of pleasure in his youth, in constructing a miniature house? How amusing are the machines which are employed in the manufactory of cloathing of all kinds ! and how full of various entertainment are the mixtures which take place in the chemical arts ! each of these might be contrived upon fuch a feale, as not only to amuse young people, but to afford a profit to their parents or masters. The Moravians, at Bethlehem in our state, have proved that this proposition is not a chimerical one. All the amusements of their children are derived from their performing the subordinate parts of several of the mechanical arts; and a considerable portion of the wealth of that worthy and happy society is the product of the labour of their little hands.—

If, in these amusements, an appeal should be made to that spirit of competition which is so common among young people, it would be the means of producing more pleasure to the children, and more profit to all who are connected with them. The wealth of those manufacturing towns in England, which employ the children of poor people, is a proof of what might be expected from connecting amusement, and labour together, in all our schools. The product from the labour obtained in this way, from all the schools in the United States, would amount to a sum which would almost exceed calculation.

III. To train the youth who are intended for the learned professions or for merchandize, to the dutics of their future employments, by means of useful amusements, which are *related* to those employments, will be impracticable; but their amusements may be

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defived from cultivating a fpot of ground; for where is the lawyer, the physician, the divine, or the merchant, who has not indulged or felt a passion, in fome part of his life, for rural improvements?——Indeed I conceive the feeds of knowledge in agriculture will be most productive, when they are planted in the minds of this class of scholars.

I have only to add under this head, that the common amufements of children have no connection with their future occupations. Many of them injure their cloaths, fome of them wafte their ftrength, and impair their health, and all of them prove more or lefs, the means of producing noife, or of exciting angry paffions, both of which are calculated to beget vulgar manners. The Methodifts have wifely banifhed every fpecies of play from their college. Even the healthy and pleafurable exercise of fwimming, is not permitted to their fcholars, except in the prefence of one of their mafters.

Do not think me too strict if I here exclude gunning from among the amusements of young men. My objections to it are as follow.

I It hardens the heart, by inflicting unnecessary pain and death upon animals.

2. It is unneceffary in civilized fociety, where animal food may be obtained from domestic animals, with greater facility. 3. It confumes a great deal of time, and thus creates habits of idleness.

4. It frequently leads young men into low, and bad company.

5. By imposing long abstinence from food, it leads to intemperance in eating, which naturally leads to intemperance in drinking.

6. It exposes to fevers, and accidents. The newspapers are occasionally filled with melancholy accounts of the latter, and every physician must have met with frequent and dangerous instances of the former, in the course of his practice.

I know the early use of a gun is recommended in our country, to teach our young men the use of firearms, and thereby to prepare them for war and battle. But why should we inspire our youth, by such exercises, with hostile ideas towards their fellow creatures ?—Let us rather instill into their minds sentiments of universal benevolence to men of all nations and colours. Wars originate in error and vice. Let us eradicate these, by proper modes of education, and wars will cease to be necessary in our country. The divine author and lover of peace " will then " fuffer no man to do us wrong; yea, he will re-" prove kings for our fake, faying, touch not my " anointed and do my people no harm." Should the nations with whom war is a trade, approach our coafts, they will retire from us, 25 Satan did from our Saviour, when he came to affault him; and for the fame reafon, becaufe they will " find nothing in " us" congenial to their malignant difpolitions; for the flames of war can be fpread from one nation to another, only by the conducting mediums of vice and error.

I have hinted at the injury which is done to the health of young people by fome of their amufements; but there is a practice common in all our schools, which does more harm to their bodies than all the amusements that can be named, and that is, obliging them to fit too long in one place, or crowding too many of them together in one room. By means of the former, the growth and shape of the body have been impaired; and by means of the latter, the feeds of fevers have often been engendered in schools. In the course of my business, I have i een called to many hundred children who have been feized with indifpofitions in school, which evidently arose from the action of morbid effluvia, produced by the confined breath and perfpiration of too great a number of children in one room. To obviate thefe evils, children should be permitted, after they have faid their lessons, to amuse themselves in the open air, in some of the useful and agreeable exercises which have been mentioned. Their minds will be strengthened, as well as their bodies relieved by them. To oblige a fprightly boy to fit feven hours in a day, with his

little arms pinioned to his fides, and his neck unnaturally bent towards his book; and for *no crime* !--what cruelty and folly are manifefted, by fuch an abfurd mode of inftructing or governing young people !

I come next to fay a few words upon the fubject of PUNISHMENTS which are proper in schools.

In barbarous ages every thing partook of the complexion of the times. Civil, ecclesiaftical, military, and domestic punishments were all of a cruel nature. With the progress of reason and christianity, punishments of all kinds have become lefs severe. Solitude and labour are now substituted in many countries, with fuccefs, in the room of the whipping-post and the gallows.-The innocent infirmities of human nature are no longer proferibed, and punished by the church. Discipline, consisting in the vigilance of officers, has lessened the supposed necessity of military executions; and husbands-fathers-and masters now blush at the history of the times, when wives, children, and fervants, were governed only by force. **But** unfortunately this spirit of humanity and civilization has not reached our fchools. The rod is yet the principal instrument of governing them, and a schoolmaster remains the only despot now known in free Perhaps it is because the little subjects of countries. their arbitrary and capricious power have not been in a condition to complain. I shall endeavour there-

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fore to plead their cause, and to prove that corporal punishments (except to children under sour or five years of age) are never necessary, and always hurtful, in schools.—The following arguments I hope will be sufficient to establish this proposition.

1. Children are feldom fent to school before they are capable of feeling the force of rational or moral obligation. They may therefore be deterred from committing offences, by motives less disgraceful than the fear of corporal punishments.

2. By correcting children for ignorance and mogligence in fchool, their ideas of *improper* and *immoral* actions are confounded, and hence the moral faculty becomes weakened in after life. It would not be more cruel or abfurd to inflict the punifhment of the whipping-post upon a man, for not dreffing fashionably or neatly, than it is to ferule a boy for blotting his copy book, or mif-fpelling a word.

3. If the natural affection of a parent is fometimes infufficient, to reftrain the violent effects of a fudden guft of anger upon a child, how dangerous must the power of correcting children be when lodged in the hands of a febool-mafter, in whofe anger there is no mixture of parental affection! Perhaps those parents act most wifely, who never trust themselves to inflict corporal punishments upon their children, after they are four or five years old, but endeavour to punish, and reclaim them, by confinement, or by abridging them of fome of their usual gratifications, in drefs, food or amusements.

4. Injuries are fometimes done to the bodies, and fometimes to the intellects of children, by corporal punifhments. I recollect, when a boy, to have loft a fchool-mate, who was faid to have died in confequence of a fevere whipping he received in fchool. At that time I did not believe it possible, but from what I now know of the difproportion between the violent emotions of the mind, and the strength of the body. in children, I am difposed to believe, that not only fickness, but that even *death* may be induced, by the convulsions of a youthful mind, worked up to a high fense of shame and refertment.

The effects of thumping the head, boxing the ears, and pulling the hair, in impairing the intellects, by means of injuries done to the brain, are too obvious to be mentioned.

5. Where there is *fhame*, fays Dr. Johnfon, there may be virtue. But corporal punifhments, inflicted at fchool, have a tendency to deftroy the fense of fhame, and thereby to deftroy all moral fensibility. The boy that has been often publicly whipped at fchool, is under great obligations to his maker, and his parents, if he afterwards escape the whipping-post or the gallows.

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6. Corporal punishments, inflicted at school, tend to beget a spirit of violence in boys towards each other, which often follows them through life; but they more certainly beget a fpirit of hatred, or revenge, towards their masters, which too often becomes a ferment of the fame baneful passions towards other people. The celebrated Dr. afterwards Baron Haller declared, that he never faw, without horror, during the remaining part of his life, a school-master, who had treated him with unmerited feverity, when he was only ten years old. A fimilar anecdote is related of the famous M. de Condamine. I think I have known feveral instances of this vindictive, or indignant spirit, to continue towards a cruel and tyrannical fchool-master, in perfons who were advanced in life, and who were otherwise of gentle and forgiving dispositions.

7. Corporal punishments, inflicted at schools, beget a hatred to instruction in young people. I have sometimes suspected that the Devil, who knows how great an enemy knowledge is to his kingdom, has had the address to make the world believe that *ferruling*, *pulling* and *boxing ears*, *cudgelling*, *horsing*, &c. and, in boardingschools, a *little starving*, are all absolutely necessary for the government of young people, on purpose that he might make both schools, and school-massers odious, and thereby keep our world in ignorance; for ignorance is the best means the Devil ever contrived, to keep up the number of his subjects in our world. 8. Corporal punishments are not only hurtful, but altogether unneceffary, in schools. Some of the most celebrated and successful school-masters, that I have known, never made use of them.

9. The fear of corporal punifhments, by debilitating the body, produces a corresponding debility in the mind, which contracts its capacity of acquiring knowledge. This capacity is enlarged by the tone which the mind acquires from the action of hope, love, and confidence upon it; and all these passions might easily be cheristed, by a prudent and enlightened schoolmaster.

10. As there should always be a certain ratio between the strength of a remedy, and the excitability of the body in difeases, fo there should be a similar ratio between the force employed in the government of a school, and the capacitos and tempers of children. A kind rebuke, like fresh air in a fainting fit, is calculated to act upon a young mind with more effect, than stimulants of the greatest power; but corporal punishments level all capacities and tempers, as quack-medicines do, all conftitutions and difeases. They dishonour and degrade our species; for they suppose a total absence of all moral and intellectual feeling from the mind. Have we not often feen dull children fuddenly improve, by changing their schools? The reafon is obvious. The fuccesful teacher only accommodated his manner and discipline to the capacities of his fcholars.

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at r. I conceive corporal punifhments, ifflicted in an arbitrary manner, to be contrary to the spirit of liberty, and that they should not be tolerated in a free government. Why should not children be protected from violence and injuries, as well as white and black fervants ?—Had I influence enough in our legislature to obtain only a single law, it should be to make the punishment for striking a school boy, the same as for affaulting and beating an adult member of society.

To all thefe arguments I know fome well difpofed people will reply, that the rod has received a divine commission from the facred Scriptures, as the instrument of correcting children. To this I answer that the rod, in the Old Testament, by a very common figure in Rhetoric, stands for punishments of any kind, just as the *fword*, in the New Testament, stands for the faithful and general administration of justice, in such a way as is most calculated to reform criminals, and to prevent crimes

The following method of governing a fchool, I apprehend, would be attended with much better effects, than that which I have endeavoured to fhew to be contrary to reafon, humanity, religion, liberty, and the experience of the wifeft and beft teachers in the world.

Let a school-master endeavour, in the sirst place, to acquire the considence of his scholars, by a prudent deportment. Let him learn to command his passions

and temper, at all times, in his school,-Let him treat the name of the Supreme Being with reverence, as often as it occurs in books, or in conversation with his scholars.-Let him exact a respectful behaviour towards himself, in his school; but in the intervals of fchool hours, let him treat his fcholars with gentlenefs and familiarity. If he should even join in their amusements, he would not loofe, by his condescention, any part of his authority over them. But to fecure their affection and respect more perfectly, let him, once or twice a year, lay out a fmall fum of money in penknives, and books, and distribute them among his scholars, as rewards for proficiency in learning, and for good behaviour. If these prudent and popular measures should fail of preventing offences at school, then let the following modes of punishment be adopted.

1. Private admonition. By this mode of rebuking, we imitate the conduct of the divine Being towards his offending creatures, for his *firft* punishment is always inflicted *privately*, by means of the *fill* voice of confcience.

2. Confinement after school-hours are ended; but with the knowledge of the parents of the children.

3. Holding a fmall fign of difgrace, of any kind, in the middle of the floor, in the prefence of a whole fchool.

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If these punishments fail of reclaiming a bad boy, he should be difmiffed from school, to prevent his corrupting his school-mates. It is the business of parents, and not of school-masters, to use the last means for eradicating idleness and vice from their children.

The world was created in love. It is fultained by love. Nations and families that are happy, are made fo only by love. Let us extend this divine principle, to those little communities which we call fchools. Children are capable of loving in a high degree. They may therefore be governed by love.

The occupation of a fchool-mafter is truly dignified. He is, next to mothers, the moft important member of civil fociety. Why then is there fo little rank connected with that occupation? Why do we treat it with fo much neglect or contempt? It is becaufe the voice of reafon, in the human heart, affociates with it the idea of defpotifm and violence. Let fchool-mafters ceafe to be tyrants, and they will foon enjoy the refpect and rank, which are naturally connected with their profeffion.

We are grofly miftaken in looking up wholiy to our governments, and even to ministers of the gospel, to promote public and private order in society. Mothers and school-masters plant the seeds of nearly all the good and evil which exist in our world. Its reformation must therefore be begun in nurferies and in schools. If the habits we acquire there, were to have no influence upon our future happines, yet the influence they have upon our governments, is a sufficient reason why we ought to introduce new modes, as well as new objects of education into our country.

You have lately been employed in an attempt to perpetuate our existence as a free people, by establishing the means of national credit and defence; * but these are feeble bulwarks against flavery, compared with habits of labour and virtue, differminated among our young people. Let us establish schools for this purpose, in every township in the United States, and conform them to reason, humanity, and the present state of society in America. Then, Sir, will the generations who are to follow us, realize the precious ideas of the dignity and excellence of republican forms of government, which I well recollect you cherished with so much ardor, in the beginning of the American revolution, and which you have manifested ever since, both by your public and private conduct.

We fuffer fo much from traditional error of various kinds, in education, morals, and government, that I have been led to wifh, that it were possible for us to have fchools established, in the United States, for teaching the art of forgetting. I think three-fourths of all our fchool-masters, divines, and legislators would

^{*} Mr. Clymer was one of the Representatives of Pennsylvania, in the first Congress of the United States which met in New York, in the year 1789.

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profit very much, by spending two or three years in such useful institutions.

, An apology may feem neceffary, not only for the length of this letter, but for fome of the opinions contained in it. I know how apt mankind are to brand every proposition for innovation, as visionary and Utopian. But good men should not be discouraged, by fuch epithets, from their attempts to combat vice and error. There never was an improvement, in any art or fcience, nor even a propofal for meliorating the condition of man, in any age or country, that has not been confidered in the light of what has been called, fince Sir. Thomas More's time, an Utopian Scheme. The application of the magnet to navigation, and of steam to mechanical purposes, have both been branded as Utopian projects. The great idea in the mind of Columbus, of exploring a new world, was long viewed, in most of the courts of Europe, as the dream of a visionary failor. But why do we go to an cient times, for proofs of important innovations in human affairs having been treated as Utopian schemes. You and I recollect the time, when the abolition of negro flavery in our state, as also when the independence of the United States, and the prefent wife and happy confederacy of our republics, were all confidered by many of our sober prudent men, as subjects of an Utopian nature.

If those benefactors of mankind, who have levelled mountains in the great road of human life, by the discoveries or labours which have been mentioned, have been stigmatized with obloquy, as visionary projectors, why should an individual be afraid of similar treatment, who has only attempted to give to that road, from its beginning, a straight direction.

If but a dozen men like yourself, approve of my opinions, it will overbalance the most illiberal opposition they may meet with, from all the learned vulgar of the United States.

For the benefit of those perfons who confider opinions as improved, like certain liquors, by time; and who are opposed to innovations, only because they did not occur to their ancestors, I shall conclude my letter with an anecdote of a minister in London, who, after employing a long fermon, in controverting what he supposed to be an heretical opinion, concluded it with the following words, "I tell you, I tell you my bre-" thren,—I tell you again,—that an old error is better " than a new truth."

With great regard I am,

Dear Sir,

Your's fincerely, BENJAMIN RUSH.

Philadelphia, August 20th, 1790.

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P. S. Since writing the above letter, an ingenirus German friend of mine has informed me, that a curious work has lately appeared in Germany, entitled, "A " treatife on human mifery," written by a Mr. Salzman, an enlightened fehool-mafter, in which a ftriking view is given of the mifery inflicted upon part of the human race, by the prefent abfurd, and cruel modes of conducting education in public fehools. The author concludes this part of his work, my friend informs me, with a dream, in which he beholds with ineffable joy, the avenging angel defeending from heaven, and afterwards confuming in an immenfe bonfire, certain abfurd fchool-books, and all the ferrules in the world. Thoughts upon female education, accommodated to the present state of society, Manners, and government, in the United states of America. Addressed to the visitors of the young ladies' academy in philadelphia, 28th july, 1787, at the close of the quarterly examination, and afterwards published at the request of the visitors.

GENTLEMEN,

I HAVE yielded with diffidence to the folicitations of the Principal of the Academy, in undertaking to express my regard for the prosperity of this seminary of learning, by submitting to your candor, a few Thoughts upon Female Education.

The first remark that I shall make upon this subject, is, that female education should be accommodated to the state of society, manners, and government of the country, in which it is conducted.

This remark leads me at once to add, that the education of young ladies, in this country, fhould be conducted upon principles very different from what it is in Great Britain, and in fome respects, different from what it was when we were part of a monarchical empire.

There are feveral circumstances in the situation, employments, and duties of women in America, which require a peculiar mode of education.

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I. The early marriages of our women, by contracting the time allowed for education, renders it necessary to contract its plan, and to confine it chiefly to the more useful branches of literature.

II. The ftate of property in America, renders it neceffary for the greateft part of our citizens to employ themfelves, in different occupations, for the advancement of their fortunes. This cannot be done without the affiftance of the female members of the community. They must be the itewards, and guardians of their husbands' property. That education, therefore, will be most proper for our women, which teaches them to discharge the duties of those offices with the most fuccess and reputation.

III. From the numerous avocations from their families, to which professional life exposes gentlemen in America, a principal share of the instruction of children naturally devolves upon the women. It becomes us therefore to prepare them by a fuitable education, for the discharge of this most important duty of mothers.

IV. The equal fhare that every citizen has in the liberty, and the poffible fhare he may have in the government of our country, make it necessary that our ladies fhould be qualified to a certain degree by a pecu-

liar and fuitable education, to concur in instructing their fons in the principles of liberty and government.

V. In Great Britain the bufinefs of fervants is a regular occupation; but in America this humble ftation is the ufual retreat of unexpected indigence; hence the fervants in this country poffefs lefs knowledge and fubordination than are required from them; and hence, our ladies are obliged to attend more to the private affairs of their families, than ladies generally do, of the fame rank in Great Britain. "They are good fervants," faid an American lady of diftinguished merit, * in a letter to a favorite daughter, § " who will do well with " good looking after." This circumstance should have great influence upon the nature and extent of female education in America.

The branches of literature most effential for a young lady in this country, appear to be,

I. A knowledge of the English language. She should not only read, but speak and spell it correctly. And to enable her to do this, she should be taught the English grammar, and be frequently examined in applying its rules in common conversation.

II. Pleafure and interest conspire to make the writing of a fair and legible hand, a necessary branch of a redy's education. For this purpose she should be

* Mrs. Græme.

& Mrs. Elizabeth Ferguson.

taught not only to shape every letter properly, but to pay the strictest regard to points and capitals.*

I once heard of a man who professed to discover the temper and disposition of persons by looking at their hand writing. Without enquiring into the probability of this story; I shall only remark, that there is one thing in which all mankind agree upon this fubject, and that is, in confidering writing that is blotted, crooked, or illegible, as a mark of vulgar educa-I know of few things more rude or illiberal, tion. than to obtrude a letter upon a perfon of rank or bufiness, which cannot be easily read. Peculiar care should be taken to avoid every kind of ambiguity and affectation in writing names. I have now a letter in my possession upon business, from a gentleman of a liberal profession in a neighbouring state, which I am unable to answer, because I cannot discover the name which is fubscribed to it. + For obvious reasons I would recom-

* The prefent mode of writing among perfons of tafte is to use a capital letter only for the first word of a fentence, and for names of perfons, places and months, and for the first word of every line in poetry. The words should be fo shaped that a straight line may be drawn between two lines, without touching the extremities of the words in either of them.

† Dr. Franklin received many letters while he was in France during the American war, from perfons who wifhed to migrate to America, and who appeared to possels knowledge and talents that would have been useful to his country, but their names were fubscribed to their letters in fo artificial and affected a manner, that he was unable to decypher them, and of course, did not answer them.

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mend the writing of the first or christian name at full length, where it does not confist of more than two fyllables. Abbreviations of all kind in letter writing, which always denote either haste or carless, should likewise be avoided. I have only to add under this head that the Italian and inverted hands which are read with difficulty, are by no means accommodated to the active state of business in America, or to the simplicity of the citizens of a republic.

III. Some knowledge of figures and book-keeping is absolutely neceffary to qualify a young lady for the duties which await her in this country. There are certain occupations in which she may affiss her husband with this knowledge; and should she survive him, and agreeably to the custom of our country be the executrix of his will, she cannot fail of deriving immense advantages from it.

IV. An acquaintance with geography and fome inftruction in chronology will enable a young lady to tead hiftory, biography, and travels, with advantage; and thereby qualify her not only for a general intercourfe with the world, but to be an agreeable companion for a fenfible man. To these branches of knowledge may be added, in fome inftances, a general acquaintance with the first principles of astronomy natural philosophy and chemistry, particularly, with such parts of them as are calculated to prevent superstition, by explaining the causes, or obviating the effects of of natural evil, and fuch, as are capable of being applied to domettic, and culinary purposes.

V. Vocal music should never be neglected, in the education of a young lady, in this country. Befides preparing her to join in that part of public worship which confifts in pfalmody, it will enable her to foothe the cares of domestic life. The distress and vexation of a husband-the noise of a nursey, and, even, the the forrows that will fometimes intrude into her own bofom, may all be relieved by a fong, where found and fentiment unite to act upon the mind. I hope it will not be thought foreign to this part of our subject to introduce a fact here which has been suggested to me by my profession, and that is, that the exercise of the organs of the breaft, by finging, contributes very much to defend them from those diseases to which our climate; and other causes, have of late exposed them.---Our German fellow citizens are feldom afflicted with consumptions, nor have I ever known but one instance of fpitting of blood among them. This, I believe, is in part occasioned by the strength which their lungs acquire, by exercifing them frequently in vocal mufic, for this constitutes an effential branch of their education. The music-master of our academy[‡] has furnished me with an observation still more in favour of this opinion. He informed me that he had known feveral inftances of perfons who were strongly difposed to the confumption, who were restored to health, by the moderate exercise of their lungs in finging.

‡ Mr. Adgate.

VI. DANCING is by no means an improper branch of education for an American lady. It promotes health, and renders the figure and motions of the body eafy and agreeable. I anticipate the time when the refources of converfation shall be for far multiplied, that the amufement of dancing shall be wholly confined to children. But in our present state of society and knowledge, I conceive it to be an agreeable substitute for the ignoble pleasures of drinking, and gaming, in our assemblies of grown people.

VII. The attention of our young ladies should be directed, as foon as they are prepared for it, to the reading of hiftory-travels-poetry-and moral effays. These studies are accommodated, in a peculiar manner, to the present state of society in America, and when a relish is excited for them, in early life, they fubdue that paffion for reading novels, which fo generally prevails among the fair fex. I cannot difmis this species of writing and reading withour observing, that the fubjects of novels are by no means accommodated to our present manners. They hold up life, it is true, but it is not as yet life in America. Our passions have not as yet " overstepped the modesty of nature." nor are they "to is tatters," to use the expressions of the poet, by extravagant love, jealousy, ambition, or revenge. As yet the intrigues of a British novel, are as foreign to our manners, as the refinements of Afiatic vice. Let it not be faid, that the tales of dif-

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trefs, which fill modern novels, have a tendency to foften the female heart into acts of humanity. The fact is the reverfe of this. The abortive fympathy which is excited by the recital of imaginary diftrefs, blunts the heart to that which is real; and, hence, we fometimes fee inftances of young ladies, who weep away a whole forenoon over the criminal forrows of a fictitious Charlotte or Werter, turning with difdain at three o'clock from the fight of a beggar, who folicits in feeble accents or figns, a fmall portion only of the crumbs which fall from their fathers' tables.

VIII. It will be neceffary to connect all thefe branches of education with regular inftruction in the christian religion. For this purpose the principles of the different sects of christians should be taught and explained, and our pupils should early be furnished with some of the most simple arguments in favour of the truth of christianity*. A portion of the bible (of late improperly banished from our schools)should be read by them every day, and such questions should be asked, after reading it as are calculated to imprint upon their minds the interesting stories contained in it.

Rouffeau has afferted that the great fecret of education confifts in " wafting the time of shildren pro-

Baron Haller's letters to his daughter on the truths of the christian religion, and Dr. Beatie's «evidences of the christian religion briefly and plainly stated " are excellent little tracts, and well adapted for this purpofe.

fitably." There is fome truth in this observation. Ī believe that we often impair their health, and weaken sheir capcities, by imposing studies upon them, which are not proportioned to their years. But this objection does not apply to religious instruction. There are certain fimple propositions in the christian religion, which are fuited in a peculiar, manner, to the infant state of reason and moral sensibility. A clergyman of long experience in the instruction of youth + informed me, that he always found children acquired religious knowledge more eafily than knowledge upon other subjects; and that young girls acquired this kind of knowledge more readily than boys. The female breaft is the natural foil of christianity; and while our women are taught to believe its doctrines, and obey its precepts, the wit of Voltaire, and the stile of Bolingbroke, will never be able to destroy its influence upon our citizens.

I cannot help remarking in this place, that chriftianity exerts the most friendly influence upon science, as well as upon the morals and manners of mankind. Whether this be occasioned by the unity of truth, and the mutual affistance which truths upon different subjects afford each other, or whether the faculties of the mind be sharpened and corrected by embracing the truths of revelation, and thereby prepared to investigate and perceive truths upon other subjects, I

† The Rev. Mr. NICHOLAS COLLIN, minister of the Swedish church in Wicocoo.

will not determine, but I believe that the greateft difcoveries in fcience have been made by christian philosophers, and that there is the most knowledge in those countries where there is the most christianity.* If this remark be well founded, then those philosophers who reject christianity, and those christians, whether parents or school-masters, who neglect the religious instruction of their children and pupils, reject and neglect the most effectual means of promoting knowledge in our country.

IX. If the measures that have been recommended for infpiring our pupils with a fense of religious and moral obligation be adopted, the government of them will be easy and agreeable. I shall only remark under this head, that *frictnefs* of discipline will always render *feverity* unnecessary, and that there will be the most instruction in that school, where there is the most order.

I have faid nothing in favour of instrumental music as a branch of female education, because I conceive

* This is true in a peculiar manner in the feience of medecine. A young Scotch physician of enterprizing talents, who conceived a high idea of the ftate of medecine in the eastern countries, spent two years in enquigies after medical knowledge in Constantinople, and Grand Cairo. On his return to Britain he confessed to an American physician whom he met at Naples, that after all his refearches and travels, he " had discovered " nothing except a fingle fact relative to the plague, that he thoughs " worth remembering or communicating." The science of medecine in China according to the accounts of De Halde is in as imperfect a state as among the Indians of North America. it is by no means accommodated to the present state of society and manners in America. The price of mufical instruments, and the extravagant sees demanded by the teachers of instrumental music, form but a small part of my objections to it.

To perform well, upon a musical instrument, requires much time and long practice. From two to four hours in a day, for three or four years appropriated to mulic, are an immense deduction from that short period of time which is allowed by the peculiar circumstances of our country for the acquisition of the useful branches of literature that have been mentioned. How many useful ideas might be picked up in these hours from hiltory, philosophy, poetry, and the numerous moral effays with which our language abounds, and how much more would the knowledge acquired upon these subjects add to the consequence of a lady, with her hufband and with fociety, than the beft performed pieces of music upon a harpficord or a guittar! Of the many ladies whom we have known, who have spent the most important years of their lives, in learning to play upon inftruments of music, how few of them do we fee amuse themselves or their friends with them, after they become mistress of families ! Their harpfichords ferve only as fide-boards for their parlours, and prove by their filence, that necessity and circumstances, will always prevail over fashion, and false maxims of education.

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Let it not be imposed from these observations that I am infensible of the charms of instrumental music, or that I wish to exclude it from the education of a lady where a musical ear irressitably disposes to it, and affluence at the same time affords a prospect of such an exemption from the usual cares and duties of the mistress of a family, as will enable her to practife it. These circumstances form an exception to the general conduct that should arise upon this subject, from the present state of society and manners in America.

It is agreeable to observe how differently modern writers, and the inspired author of the Proverbs, describe a fine woman. The former confine their praises chiefly to perfonal charms, and ornamental accomplishments, while the latter celebrates only the virtues of a valuable mistress of a family, and a useful member of fociety. The one is perfectly acquainted with all the fashionable languages of Europe; the other, " opens her mouth with wifdom" and is perfectly acquainted with all the uses of the needle, the distaff, and the loom. The business of the one, is pleasure; the pleasure of the other, is business. The one is admired abroad; the other is honoured and beloved at home. "Her children arife up and " call her bleffed, her hufband alfo, and he praifeth her." There is no fame in the world equal to this; nor is there a note in music half so delightful, as the respectful language with which a grateful fon or d_ughter

perpetuates the memory of a fensible and affectionate mother.

It should not surprize us that British customs, with respect to female education, have been transplanted into our American schools and families. We see marks of the tame incongruity, of time and place, in many other things. We behold our houses accomudated to the climate of Great Britain, by eastern and western directions. We behold our ladies panting in a heat of ninety degrees, under a hat and cushion, which were calculated for the temperature of a British fummer. We behold our citizens condemned and punished by a criminal law, which was copied from a country, where maturity in corruption renders public executions a part of the amufements of the nation. It is high time to awake from this fervility-to ftudy our own character-to examine the age of our country-and to adopt manners in every thing, that shall be accomodated to our state of fociety, and to the forms of our government. In particular it is incumbent upon us to make ornamental accomplishments yield to principles and knowledge, in the education of our women.

A philosopher once faid "let me make all the bal-"lads of a country and I care not who makes its laws." He might with more propriety have faid, let the ladies of a country be educated properly, and they will not only make and administer its laws, but form its manners and character. It would require a lively imaginaiton to describe, or even to comprehend, the

happinels of a country, where knowledge and virtue, were generally disfused among the female fex. Our young men would then be reftrained from vice by the terror of being banished from their company. The loud laugh, and the malignant fmile, at the expence of innocence, or of personal infirmities-the feats of fuccefsful mimickry-and the low priced wit, which is borrowed from a mifapplication of fcripture phrases, would no more be confidered as recommendations to the fociety of the ladies. A double entendre in their prefence, would then exclude a gentleman forever from the company of both fexes, and probably oblige him to seek an asylum from contempt, in a foreign country. The influence of female education would be still more extensive and useful in domestic life. The obligations of gentlemen to qualify themselves by knowledge and industry to discharge the duties of benevolence, would be encreafed by marriage; and the patriot-the hero-and the legislator, would find the fweetest reward of their toils, in the approbation and applause of their wives. Children would difcover the marks of maternal prudence and wildom in every station of life; for it has been remarked that there have been few great or good men who have not been bleffed with wife and prudent mothers. Cyrus was taught to revere the gods, by his mother Mandane -Samuel was devoted to his prophetic office before he was born, by his mother Hannah-Constantine was refcued from paganism by his mother Constantia-and Edward the fixth inherited those great and excellent

qualities which made him the delight of the age in which he lived, from his mother, lady Jane Seymour. Many other inftances might be mentioned, if neceffary, from ancient and modern hiftory, to establish the truth of this proposition.

I am not enthusiastical upon the subject of education. In the ordinary course of human affairs, we shall probably too foon follow the footsteps of the nations of Europe in manners and vices. The first marks we shall perceive of our declension, will appear among our women. Their idleness, ignorance, and profligacy will be the harbingers of our ruin. Then will the character and performance of a buffoon on the theatre, be the subject of more conversation and praise, than the patriot or the minister of the gospel ;--then will our language and pronunciation be enfecbled and corrupted by a flood of French and Italian words ;---then will the hiftory of romantic amours, be preferred to the pure and immortal writings of Addison, Hawkesworth and Johnson ;---then will our churches be neglected, and the name of the fupreme being never be called upon, but in profane exclamations ;---then will our Sundays be appropriated, only to feafts and concerts ?--- and then will begin all that train of domestic and political calamities-But, I forbear. The profpect is fo painful, that I cannot help, filently, imploring the great arbiter of human, affairs, to interpose his almighty goodness, and to de-

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liver us from these evils, that, at least one spot of the earth may be referved as a monument of the effects of good education, in order to shew in some degree, what our species was, before the sall, and what it shall be, after its restoration.

Thus, gentlemen, have I briefly finished what I proposed. If I am wrong in those opinions in which I have taken the liberty of departing from general and fashonable habits of thinking, I am fure you will difcover, and pardon my mistakes. But if I am right, I am equally fure you will adopt my opinions; for to enlightened minds truth is alike acceptable, whether it comes from the lips of age, or the hand of antiquity, or whether it be obtruded by a person, who has no other claim to attention, than a defire of adding to the stock of human happines

I cannot difmifs the fubject of female education without remarking, that the city of Philadelphia first faw a number of gentlemen affociated for the purpose of directing the education of young ladies. By means of this plan, the power of teachers is regulated and restrained, and the objects of education are extended. By the feparation of the fexes in the unformed state of their manners, female delicacy is cherissed and preferved. Here the young ladies may enjoy all the literary advantages of a boarding-school, and at the fame time live under the protection of their pa-

rents^{*}. Here emulation may be excited without jealoufy,—ambition without envy,—and competition without ftrife. The attempt to eftablish this new mode of education for young ladies, was an experiment, and the fuccels of it hath answered our expectations. Too much praise cannot be given to our principal ‡ and his affistants, for the abilities and fidelity with which they have carried the plan into execution. The proficiency which the young ladies have difcovered in reading—writing—fpelling—arithmetic—grammar—geography—music—and their different catechism, fince the last examination, is a less equivocal mark of the merit of our teachers, than any thing I am able to express in their favour.

But the reputation of the academy must be fuspended, till the public are convinced, by the future conduct and character of our pupils, of the advantages of the inftitution. To you, therefore, YOUNG LADIES, an important problem is committed for folution; and that is, whether our prefent plan of education be a wife one, and whether it be calculated to prepare you for the duties of focial and domestic life. I know that the elevation of the female mind, by means of mora',

* " Unnatural confinement makes a young woman embrace with avi-" dity every pleafure when the is fet free. To reliab domestic life, one inuff be acquainted with h; for it is in the houfe of her parents a young " woman acquires the reliab." Lord Kaims's thoughts upon education, and the culture of the heart.

† Andrew Brown.

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phyfical and religious truth, is confidered by fome men as unfriendly to the domestic character of a woman. But this is the prejudice of little minds, and fprings from the fame spirit which opposes the general diffusion of knowledge among the citizens of our republics. If men believe that ignorance is favourable to the government of the female fex, they are certainly deceived; for a weak and ignorant woman will always be governed with the greatest difficulty. I have fometimes been led to afcribe the invention of ridiculous and expensive fashions in female drefs, entirely to the gentlemen*, in order to divert the ladies from improving their minds, and thereby to fecure a more arbitrary and unlimited authority over them. It will be in your power, LADIES, to correct the mistakes and practice of our fex upon these subjects, by demonstrating, that the female temper can only be governed by reafon, and that the cultivation of reason in women, is alike friendly to the order of nature, and to private as well as public happinfs.

* The very expensive prints of female dresses which are published annually in France, are invented and executed whollyby GENTLEMEN.

A DEFENCE OF THE USE OF THE BIBLE AS A SCHOOL BOOK. Addressed to the Rev. Jeremy Belknap, of boston.

DEAR SIR,

I is now feveral months, fince I promifed to give you my reafons for preferring the bible as a fchool book, to all other compositions. I shall not trouble you with an apology for my delaying fo long to comply with my promise, but shall proceed immediately to the subject of my letter.

Before I state my arguments in favour of teaching children to read by means of the bible, I shall assume the five following propositions.

I. That christianity is the only true and perfect religion, and that in proportion as mankind adopt its principles, and obey its precepts, they will be wife, and happy.

II. That a better knowledge of this religion is to be acquired by reading the bible, than in any other way.

III That the bible contains more knowledge neceffary to man in his prefent state, than any other book in the world. DEFENCE OF THE USE OF THE

IV. That knowledge is most durable, and religious instruction most useful, when imparted in early life,

V. That the bible, when not read in fchools, is feldom read in any fubfequent period of life.

My arguments in favor of the use of the bible as a fchool book are founded, I. In the constitution of the human mind.

1. The memory is the first faculty which opens in the minds of children. Of how much confequence, then, must it be, to impress it with the great truths of christianity, before it is pre-occupied with less interesting subjects! As all the liquors, which are poured into a cup, generally taste of that which first filled it, fo all the knowledge, which is added to that which is treasfured up in the memory from the bible, generally receives an agreeable and useful tincture from it.

2. There is a peculiar aptitude in the minds of children for religious knowledge. I have conftantly found them in the first fix or feven years of their lives, more inquisitive upon religious subjects, than upon any others: and an ingenious instructor of youth has informed me, that he has found young children more capable of receiving just ideas upon the most difficult tenets of religion, than upon the most simple branches of human knowledge. It would be strange if it were otherwise; for God creates all his means to fuit all his ends. There must of course be a fitness between the

human mind, and the truths which are effential to its happines.

3. The influence of *prejudice* is derived from the impreflions, which are made upon the mind in early life; prejudices are of two kinds, true and falfe. In a world where *falfe* prejudices do fo much mifchief, it would difcover great weaknefs not to oppose them, by such as are *true*.

I grant that many men have rejected the prejudices derived from the bible : but I believe no man ever did fo, without having been made *swifer* or *better*, by the early operation of these prejudices upon his mind. Every just principle that is to be found in the writings of Voltaire, is borrowed from the Bible : and the morality of the Deists, which has been so much admired and praised, is, I believe, in most cases, the effect of habits, produced by early instruction in the principles of christianity.

4. We are fubject, by a general law in our natures, to what is called *habit*. Now if the ftudy of the fcriptures be neceffary to our happiness at any time of our lives, the fooner we begin to read them, the more we shall be attached to them; for it is peculiar to all the acts of habit, to become easy, strong and agreeable by repetition.

5. It is a law in our natures, that we remember longest the knowledge we acquire by the greatest number of our fenfes. Now a knowledge of the contents of the bible, is acquired in fchool by the aid of the eyes and the ears; for children after getting their leffons, always fay them to their mafters in an audible voice; of courfe there is a prefumption, that this knowledge will be retained much longer than if it had been acquired in any other way.

6. The interesting events and characters, recorded and described in the Old and New Testaments, are accomodated above all others to seize upon all the faculties of the minds of children. The understanding, the memory, the imagination, the passions, and the moral powers, are all occasionally addressed by the various incidents which are contained in those divine books, infomuch that not to be delighted with them, is to be devoid of every principle of pleasure that exists in a found mind.

7. There is a native love of *truth* in the human mind. Lord Shaftefbury fays, that "truth is fo con-"genial to our minds, that we love even the *fbadow* "of it:" and Horace, in his rules for composing an epick poem, establishes the fame law in our natures, by advising the "fictions in poetry to refemble truth." Now the bible contains more truths than any other book in the world: fo true is the testimony that it bears of God in his works of creation, providence, and redemption, that it is called *truth* itself, by way of preeminence above things that are only fimply true. How

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forcibly are we ftruck with the evidences of truth, in the hiftory of the Jews, above what we difcover in the hiftory of other nations? Where do we find a hero, or an hiftorian record his own faults or vices except in the Old Teftament? Indeed, my friend, from fome accounts which I have read of the American revolution, I begin to grow fceptical to all hiftory except to that which is contained in the bible. Now if this book be known to contain nothing but what is materially true, the mind will naturally acquire a love for it from this circumftance: and from this affection for the truths of of the bible, it will acquire a difcernment of truth in other books, and a preference of it in all the tranfactions of life.

VIII. There is a wonderful property in the *memory*, which enables it in old age, to *recover* the knowledge it had acquired in early life, after it had been apparently forgotten for forty or fifty years. Of how much confequence, then, muft it be, to fill the mind with that fpecies of knowledge, in childhood and youth, which, when *recalled* in the decline of life, will fupport the foul under the infirmities of age, and fmooth the avenues of approaching death? The bible is the only book which is capable of affording this fupport to old age; and it is for this reafon that we find it reforted to with fo much diligence and pleafure by fuch old people as have read it in early life. I can recollect many influnces of this kind in perfons who difeovered no attachment to the bible, in the meridian of their lives, who have notwithstanding, spent the evening of them, in reading no other book. The late Sir John Pringle, Physician to the Qacen of Great Britain, after passing a long life in camps and at court, closed it by stuaring the foriptures. So anxious was he to increase his knowledge in them, that he wrote to Dr. Michaelis, a learned professer of divinity in Germany, for an explanation of a difficult text of scripture, a schort time before his death.

IX. My fecond argument in favour of the use of the bible in schools, is founded upon an implied command of God, and upon the practice of several of the wifest nations of the world.—In the 6th chapter of Deuteronomy, we find the following words, which are directly to my purpose, "And thou shalt love the "Lord thy God, with all thy heart and with all thy "foul, and with all thy might. And these words. "which I command there this day shall be in thine "heart. And thou *shalt teach them diligently anto thy* "children, and shalt talk of them when thou sittess in "thine house, and when thou walkess by the way, "and when thou liess down, and when thou rifess "up."

It appears, moreover, from the hiltory of the Jews, that they flourished as a nation, in proportion as they honoured and read the books of Moses, which contained, a written revelation of the will of God, to the children of men. The law was not only neglected, but loft during the general profligacy of manners which accompanied the long and wicked reign of Manaffah. But the difcovery of it, in the rubbifn of the temple, by Jofiah, and its fublequent general ufe, were followed by a return of national virtue and profperity. We read further, of the wonderful effects which the reading of the law by Ezra, after his return from his captiviy in Babylon, had upon the Jews. They hung upon his lips with tears, and fhowed the fincerity of their repentance, by their general reformation.

The learning of the Jews, for many years confifted in nothing but a knowledge of the scriptures. These were the text books of all the instruction that was given in the schools of their prophets. It was by a mans of this general knowledge of their law, that those Jews that wandered from Judea into our countries, carried with them and propagated certain ideas of the true God among all the civilized nations upon the face of the earth. And it was from the attachment they retained to the old Teitament, that they procured a translation of it into the Greek language, after they loft the Hebrew tongue, by their long absence from their native country. The utility of this translation, commonly called the feptuagint, in facilitating the progrefs of the gospel, is well known to all who are acquainted with the hillory of the first age of the christian church.

But the benefits of an early and general acquaintance with the bible, were not confined only to the Jewish They have appeared in many countries in nations. Europe, fince the reformation. The industry, and habits of order, which diftinguish many of the German nations, are derived from their early inftruction in the principles of christianity, by means of the bible. The moral and enlightened character of the inhabitants of Scotland, and of the New England States, appears to be derived from the fame caufe. If we defcend from nations to fects, we shall find them wife and prosperous in proportion as they become early acquainted with the fcriptures. The bible is still used as a school book among the quakers. The morality of this fect of chriftians is univerfally acknowledged. Nor is this all, -their prudence in the management of their private affairs, is as much a mark of their fociety, as their fober manners.

I with to be excufed for repeating here, that if the bible did not convey a fingle direction for the attainment of future happines, it should be read in our schools in preference to all other books, from its containing the greatest portion of that kind of knowledge which is calculated to produce private and publick temporal happines.

We err not only in Luman affairs, but in religion fikewife, *only* becaufe "we do not know the feriptures." The opposite fystems of the numerous feels of christians

arife chiefly from their being more instructed in catechifms, creeds, and confessions of faith, than in the scriptures. Immense truths, I believe, are concealed in them. The time, I have no doubt, will come, when posterity will view and pity our ignorance of these truths, as much as we do the ignorance of the disciples of our Saviour, who knew nothing of the meaning of those plain passages in the old testament which were daily fulfilling before their eyes. Whenever that time shall arrive, those truths which have escaped our notice, or, if discovered, nave been thought to be opposed to each other, or to be inconfistent with themselves, will then like the ftones of Solomon's temple, be found fo exactly to accord with each other, that they shall be cemented without noife or force, into one fimple and fublime fystem of religion.

But further, we err, not only in religion but in philofophy likewife, becaufe we "do not know or *believe* "the foriptures." The foiences have been compared to a circle of which religion compofes a part. To underftand any one of them perfectly it is neceffary to have fome knowledge of them all. Bacon, Boyle, and Newton included the feriptures in the inquiries to which their univerfal geniufes difpofed them, and their philofophy was aided by their knowledge in them. A flriking agreement has been lately diffeovered between the hiftory of certain events recorded in the bible and fome of the operations and productions of nature, particularly thofe which are related in Whitchurft's obfervations on the deluge— in Smith's account of the origin of the variety of colour in the human fpecies, and in Bruce's travels. It remains yet to be flown how many other events, related in the bible, accord with fome late important difcoveries in the principles of medecine. The events, and the principles alluded to, mutually establish the truth of each other. From the difcoveries of the christian philosophers, whose names have been last mentioned, I have been led to question whether most harm has been done to revelation, by those divines who have unduly multiplied the objects of faith, or by those deifts who have unduly multiplied the objects of reason, in explaining the foriptures.

I fhall now proceed to answer fome of the objections which have been made to the use of the bible as a school book.

I. We are told, that the familiar use of the bible in our schools, has a tendency to lessen a due reverence for it. This objection, by proving too much, proves nothing at all. If familiarity lessens respect for divine things, then all those precepts of our religion, which enjoin the daily or weekly worship of the Deity, are improper. The bible was not intended to represent a Jewish ark; and it is an antichristian idea, to suppose that it can be profaned, by being carried into a school house, or by being handled by children. But where will the bible be read by young people with more reverence than in a school? Not in most private families; for I believe there are few parents, who pre-

ferve so much order in their houses, as is kept up in our common English schools.

II. We are told, that there are many passages in the old testament, that are improper to be read by children, and that the greatest part of it is no way interesting to mankind under the present dispensation of the gospel. There are I grant, several chapters, and many verses in the old testament, which in their present unfortunate translation, should be passed over by children. But I deny that any of the books of the old testament are not interesting to markind, under the gospel dispersiation. Most of the characters, events, and ceremonies, mentioned in them, are perfonal, providential, or inftituted types of the Meffiah : All of which have been, or remain yet to be, fulfilled by him. It is from an ignorance or neglect of these types, that we have fo many deifts in christendom; for fo irrefragably do they prove the truth of christianity, that I am fure a young man who had been regularly instructed in their meaning, could never doubt afterwards of the truth of any of its principles. If any obfcurity appears in these principles, it is only (to use the words of the poet) because they are dark, with exceffive bright.

I know there is an objection among many Pcople to teach children doctrines of any kind, because they are liable to be controverted. But where will this objection lead us?— The being of a God, and the obligations of morality, have both been controverted; and yet who has objected to our teaching these doctrines to our chilldren?

The curiofity and capacities of young people for the mysteries of religion, awaken much sooner than is generally supposed. Of this we have two remarkable proofs in the old testament. The first is mentioned in the tweifth chapter of Exodus. " And it shall come when your children shall fay unto you, " What mean you by this fervice ?" that ye shall fay, " It is the facra-" fice of the Lord's paffover, who paffed over the houfes " of the children of Ifrael in Egypt, when he fmote the " Egyptians, and delivered our houses. And the chil-" dren of Israel went away, and did as the Lord had « commanded Mofes and Aaron." A fecond proof of the defire of children to be instructed in the mysteries of religion, is to be found in the fixth chapter of Deuteronomy. " And when thy fon afketh thee in the time to come faying, " What mean the testimonies-and the " ftatutes-and the judgments which the Lord our God " hath commanded you?" Then thou shalt fay unto thy fon, "We were Pharoah's bondmen in Egypt, and " the Lord our God brought us out of Egypt with a " mighty hand." These enquiries from the mouths of children are perfectly natural; for where is the parent who has not had fimilar queftions proposed to him by his children upon their being being first conducted to a place of worfhip, or upon their beholding, for the first time, either of the facraments of our religion?

Let us not not be wifer than our Maker. If moral procepts alone could have reformed mankind, the miffion of the Son of God into our world, would have been unneceffary. He came to promulgate a system of doctrines, as well as a fystem of morals. The perfect morality of the gospel refts upon a doctrine, which, though often controverted, has never been refuted, I mean the vicarious life and death of the Son of God. This fubline and ineffable doctrine delivers us from the abfurd hypotheses of modern philosophers, concerning the foundation of moral obligation, and fixes it upon the eternal and felf moving principle of LOVE. It concentrates a whole fystem of ethics in a fingle text of scripture. " A new commandment I give unto you, that ye love one another, even as I have loved you." By witholding the knowledge of this doctrine from children, we deprive ourfelves of the best means of awakening moral fenfibility in their minds. We do more, we furnish an argument, for witholding from them a knowledge of the morality of the gospel likewife; for this, in many inflances, is as fupernatural, and therefore as liable to be controverted, as any of the doctrines or miracles which are mentioned in the new testament. The miraculous conception of the faviour of the world by a virgin, is not more oppofed to the ordinary course of natural events, nor is the doctrine of the atonement more above human reason, than those moral precepts, which command us to love our enemies, or to die for our friends.

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III. It has been faid, that the division of the bible into chapters and verses, renders it more difficult to be read, by children than many other books.

By a little care in a master, this difficulty may be obviated, and even an advantage derived from it. It may ferre to transfer the attention of the fcholar to the fense of a subject; and no person will ever read well, who is guided by any thing elfe, in his ftops. emphasis, or accents. The division of the bible into chapters and verfes, is not a greater obstacle to its being read with eafe, than the bad punctuation of most other books. I deliver this stricture upon other books, from the authority of Mr. Rice, the celebrated author of the art of speaking, whom I heard declare in a large company in London, that he had never feen a book properly pointed in the English Language. He exemplified, notwithstanding, by reading to the fame company a paffage from Milton, his perfect knowledge of the art of reading.

Some people, I know, have proposed to introduce extracts from the bible, into our schools, instead of the bible itself. Many excellent works of this kind, are in print, but if we admit any one of them, we shall have the fame inundation of them that we have had of grammars, spelling books, and lessons for children, many of which are published for the benefit of the authors only, and all of them have tended greatly to increase the expence of education. Besides, these extracts

or abridgements of the bible, often contain the tenets of particular fects or perfons, and therefore, may be improper for fchools composed of the children of different fects of christians. The bible is a cheap book, and is to be had in every booksfore. It is, moreover, esteemed and prefered by all fects; because each finds its peculiar doctrines in it. It should therefore be used in preference to any abridgements of it, or histories extracted from it.

I have heard it proposed that a portion of the bible fhould be read every day by the master, as a means of instructing children in it: But this is a poor substitute for obliging children to read it as a school book; for by this means we infensibly *engrave*, as it were, its contents upon their minds: and it has been remarked that children, instructed in this way in the foriptures, feldom forget any part of them. They have the same advantage over those perfons, who have only heard the foriptures read by a master, that a man who has worked with the tools of a mechanical employment for feveral years, has over the man who has only scarried on by other people.

In this defence of the use of the bible as a school book, I beg you would not think that I suppose the Bible to contain the only revelation which God has made to man. I believe in an internal revelation, or a moral

principle, which God has implanted in the heart of every man, as the precurtor of his final dominion over the whole human race. How much this internal revelation accords with the external, remains yet to be explored by philosophers. I am disposed to believe, that most of the doctrines of christianity revealed in the bible might be discovered by a close examination of all the principles of action in man: But who is equal to fuch an enquiry? It certainly does not fuit the natural indolence, or laborious employments of a great majority The internal revelation of the golpel of mankind. may be compared to the straight line which is made through a wilderness by the affistance of a compass, to a diftant country, which few are able to difcover, while the bible refembles a public road to the fame country, which is wide, plain, and eafily found. " And a highway shall be there, and it shall be called the way of holinefs. The way faring men, though. fools, fhall not err therein."

Neither let me in this place exclude the Revelation which God has made of himfelf to man jn the works of creation. I am far from wifhing to leffen the influence of this fpecies of Revelation upon mankind. But the knowledge of God obtained from this fource, is obfeure and feeble in its operation, compared with that which is derived from the bible. The vifible creation fpeaksof the Deity in hycroglyphics, while the bible defcribes all his attributes and perfections in fuch plain,

and familiar language that " he who runs may "read."

How kindly has our maker dealt with his creatures, in providing three different cords to draw them to himfelf! But how weakly do fome men act, who fufpend their faith, and hopes upon only one of them ! By laying hold of them all, they would approach more fpeedily and certainly to the centre of all happinefs.

To the arguments I have mentioned in favour of the use of the bible as a school book, I shall add a few reflections.

The prefent fashionable practice of rejecting the bible from our schools, I suspect has originated with the deifts. They diffeover great ingenuity in this new mode of attacking christianity. If they proceed in it, they will do more in half a century, in extirpating our religion, than Bolingbroke or Voltaire could have effected in a thousand years. I am not writing to this class of people. I defpair of changing the opinions of any of them. I wish only to alter the opinions and conduct of those lukewarm, or superstitious christians, who have been misled by the deits upon this subject. On the ground of the good old custom, of using the bible as a school book, it becomes us to entrench our religion. It is the last bulwark the deists have left it; for they have rendered instruction in the principles of christianity by the pulpit and the press, so unfashionable, that little good for many years seems to have been done by either of them.

The effects of the difuse of the bible, as a school book have appeared of late in the neglect and even contempt with which fcripture names are treated by many people. It is because parents have not been early taught to know or refpect the characters and exploits of the old and new testament worthies, that their names are exchanged for those of the modern kings of Europe, or of the principal characters in novels and romances. I conceive there may be some advantage in bearing scrip-It may lead the perfons who bear them, ture names. to ftudy that part of the fcriptures, in which their names are mentioned, with uncommon attention, and perhaps it may excite a defire in them to poffefs the talents or virtues of their ancient namefakes. This remark first occurred to me, upon hearing a pious woman whose name was Mary, fay, that the first passages of the bible, which made a ferious impression on her mind, were those interesting chapters and verses in which the name of Mary is mentioned in the New Testament.

It is a fingular fact, that while the names of the kings and emperors of Rome, are now given chiefly to *borfes* and *dogs* feripture names have hitherto been confined only to the human fpecies. Let the enemies and centeraners of those names take care, left the names of more modern kings be given hereafter only to the fame animals, and left the names of the modern heroines of romances be given to animals of an inferior species.

It is with great pleafure, that I have obferved the bible to be the only book read in the Sunday fchools in England. We have adopted the fame practice in the Sunday fchools, lately established in this city. This will give our religion (humanly fpeaking) the chance of a longer life in our country. We hear much of the perfons educated in free fchools in England, turning out well in the various walks of life. I have enquired into the cause of it, and have fatisfied myself, that it is wholly to be afcribed to the general use of the bible in those fchools, for it feems the children of poor people are of too little consequence to be guarded from the fupposed evils of reading the fcriptures in early life, or in an unconfecrated fchool house.

However great the benefits of reading the fcriptures in fchools have been, I cannot help remarking, that thefe benefits might be much greater, did fchoolmafters take more pains to explain them to their fcholars. Did they demonstrate the divine original of the bible from the purity, confistency, and benevolence of its doctrines and precepts—did they explain the meaning of the levitical inftitutions, and fhow their application to the numerous and fuceflive gofpel difpenfations—did they inform their pupils that the gross and abominable vices

of the Jews were recorded only as proofs of the depravity of human nature, and of the infufficiency of the law, to produce moral virtue and thereby to establish the necessity and perfection of the gospel system - and above all, did they often enforce the discourses of our Saviour, as the best rule of life, and the surest guide to happinefs, how great would be the influence of our schools upon the order and profperity of our country ! Such a mode of instructing children in the christian religion, would convey knowledge into their understandings, and would therefore be preferable to teaching them creeds, and catechifms, which too often convey, not knowledge, but words only, into their memories. I think I am not too fanguine in believing, that education, conducted in this manner, would, in the courfe of two generations, cradicate infidelity from among us, and render civil government fearcely necessary in our country.

In contemplating the political inflitutions of the United States, I lament, that we wafte fo much time and money in punifhing crimes, and take fo little pains to prevent them. We profefs to be republicans, and yet we neglect the only means of eftablishing and perpetuating our republican forms of government, that is, the univerfal education of our youth in the principles of chriftianity, by means of the bible; for this divine book, above all others, favours that equality among mankind, that refpect for just laws, and all those fober and frugal virtues, which constitute the soul of republicanism.

I have now only to apologize for havging addressed this letter to you, after having been affured by you, that your opinion, respecting the use of the bible as a schoel book, coincided with mine. My excuse for what I have done is, that I knew you were qualified by your knowledge, and disposed by your zeal in the caufe of truth, to correct all the errors you would difcover in my letter. Perhaps a further apology may * be neceffary for my having prefumed to write upon a subject so much above my ordinary studies. My excule for it is, that I thought a fingle mite from a member of a profession, which has been frequently charged with scepticism in religion, might attract the notice of perfons who had often overlooked the more ample contributions upon this fubject, of gentlemen of other professions. With great respect, I am, dear sir, your fincere friend.

BENJAMIN RUSH. Philadelphia, March 10, 1791.

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AN ADDRESS TO THE MINISTERS OF THE GOSPEL OF EVERY DENOMINATION IN THE UNITED STATES, UFON SUBJECTS INTERESTING TO MORALS.

FROM the nature of your purfuits, and from your influence in fociety, I am encouraged to addrefs you upon fubjects of the utmost importance to the prefent and future happiness of your fellow-citizens, as well as to the prosperity of the United States.

Under the great diverfity of opinions, you entertain in religion, you are all united in inculcating the neceffity of morals. In this bufinefs you are neither catholics nor proteftants—churchmen nor diffenters. One fpirit actuates you all. From the fuccefs, or failure of your exertions in the caufe of virtue, we anticipate the freedom or flavery of our country. Even the new government of the united ftates, from which fo many advantages are expected, will neither reftore order, nor eftablish juffice among us, unlefs it be accompanied and fupported by morality, among all claffes of people. Imprefied with a fenfe of the truth of thefe obfervations, I fhell briefly point out a few of those practices, which prevail in America, which exert a pernicious influence upon morals, and thereby prepare our country for milery and flavery.

I shall begin by pointing out, in the first place, the mischevious effects of spirituos liquors upon the morals of our citizens.

I. They render the temper peevifh and paffionate. They beget quarrels, and lead to profane and indecent language. They are the parents of idlencis and extravagance, and the certain forerunners of poverty, and frequently of jails, wheelbarrows, and the gallows. They are likewife injurious to health and life, and kill more than the pestilence, or the fword. Our legiflatures, by premitting the use of them, for the sake of the paltry duty collected from them, act as abfurdly as a prince would do, who fhould permit the cultivation of a poifonous nut, which every year carried off ten thousand of his subjects, because it yielded a revenue of thirty thousand pounds a year. These ten thousand men would produce annually by their labour, or by paying a trifling impost upon any one of the necessaries of life, twenty times that fum. In order to put an end to the defolating effects of spirituous liquors, it will be proper for our ministers to preach against, not the abuse of them only, but their use altogether. They are never necessary but in fickness: and then they are better applied to the outfide, than to the infide of the body.

ADDRESS TO THE MINISTERS

II Militia laws have an unfriendly influence upon morals, more especially where they authorife the election of the officers by the privates. The meetings of citizens for militia exercises are generally attended with intemperance in drinking, quarrelling, profane swearing, and acts of violence to the property of the perfons who live near the places where these meetings are held. It is a mistake to suppose that the defence of liberty requires a well organized militia in the time of peace.

The United States proved in the beginning of the late war, and France has proved fince, that armies of difciplined irrefiftable troops may be formed in a flort time out of the peafants of a country. War has lately become a fimple art. All that is practical in it, may be acquired in a few weeks. The most gallant exploits were performed during the late war, by men who had been but a few days in the practice of handling fire arms.

III. Fairs are a Pandora's box opened twice a year, in many of the states. They are wholly unnecessary, fince shops are so common in all the civilized parts of the country. They tempt to extravagance—gaming —drunkenness—and uncleanness. 'They are proper only in despotic states, where the more a people are corrupted, the more readily they submit to arbitrary government.

IV. Law-fuits should be discouraged as much as possible. They are highly discourable between persons

who profeffes chriftianity. The attendance upon courts exposes to idleness — drinking and gaming; and the usual delays of justice feldom fail of entailing hereditary discord among neighbours. It is with inexpressible pleafure that I have lately seen an account of a recommendation from the presbyterian synod of New-York and Philadelphia, to all the churches under their care to settle their disputes after the manner of the primitive chriftians and friends, by arbitration. Bleffed event in the history of mankind! may their practice spread among all sects of christians, and may it prove a prelude of that happy time foretold in the foriptures, when war and murder stall be no more.

V. The licentioufnefs of the prefs is a fruitful fource of the corruption of morals. Men are deterred from injuring each other, chiefly by the fear of detection or punifhment. Now both of thefe are removed by the ufual fecrecy of a licentious prefs. Hence revenge, fcandal and falfehood are cherifhed and propagated in a community. But further: the caufe of liberty is greatly injured by perfonal calumnics; for who will believe a truth that is told of a bad man, that has been accuftomed to read falfehoods publifhed every day of a good man? Printers who vend fcurrility, would do well in confidering, that the publifher of fcandal, is as bad as the author of it, in the fame manner that the receiver of ftolen goods, is as bad as the thief. It becomes the purchafers, and readers of perfonal feandal likewife to confider that they are accomplices in the guilt of the authors of it. We read with horror the accounts of human depravity which has converted public executions into part of the amufements of feveral ancient and modern nations, but the depravity of the human heart is of the fame nature in that man, who can read with pleafure, or even indifference, the mangled character of a fellow citizen in a licentious newfpaper.

VI. Horfe-racing and cock-fighting are unfriendly amulements to morals, and of course to the liberties of our country. They occasion idleness, fraud, gaming and profane swearing, and harden the heart against the feelings of humanity. These vulgar sports should be forbidden by law in all christian and republican countries.

VII. Clubs of all kinds, where the only bufinefs of the company, is feeding (for that is the true name of a gratification that is fimply animal) are hurtful to morals. The fociety in taverns where clubs are ufually held, is feldom fubject to much order. It exposes men to idlenefs, prodigality, and debt. It is in private families, only that fociety is innocent, or improving. Here manners are ufually kept within the bounds of decency by the company of females, who generally compofe a part of all private families; and manners, it is well known, have an influence upon morals.

VIII. Amusements of every kind, on Sundays, beget habits of idleness and a love of pleasure, which extend their influence to every day of the week. In those manufacturing towns in England, where the Sundays are spent in idleness or frolicking, little or no work is ever done on the enfuing day; hence it is called St. Monday. If there were no hereafter-individuals and focietics would be great gainers, by attending public worship every Sunday. Rest from labour in the house of God, winds up the machine of both foul and body, better than any thing elfe, and thereby invigorates it for the labours and dutics of the enfuing week. Should I ever travel into a christian country, and wish to know whether the laws of that country were wife and juft, and whether they were duly obeyed, the only question I would ask, should be " do the people spend Sunday at church, or in pleafurable entertainments at home and abroad ?" the Sunday fchools in England have been found extremely useful in reforming the children of poor people. Who can witnefs the practices of fwimming, fliding and feating, which prevail fo univerfally on Sundays, in most of the cities of the United States, and not with for fimilar inftitutions to refcues our poor children from destruction? I shall conclude my remarks upon this fubject, by declaring, that I do not wifh to fee any new laws made to enforce the keeping

of the Sabbath. I call upon minifters of the gofpel only, to increase and extend, by their influence, the pure and ufeful fpirit of their religion. In riding through our country, we may always tell, by the appearance of the people we meet with on the road, or fee at taverns, whether they enjoy the benefit of public worfhip, and of a vigil at and faithful miniftry. Where a fettlement enjoys thefe ineftimable beffings, we generally find taverns deferted on a Sunday, and a ftillnefs pervading the whole neighbourhood. as if nature herfelf had ceafed from her labours, to fhare with man in paying her weekly homage to God for his creating goodnefs

Thus I have briefly pointed out the principal fources of vice in our country. They are all of a public nature, and affect, in a direct manner, the general interests of society. I shall now suggest a few sources of vice, which are of a domestic nature, and which indirectly affect the happiness of our country.

I. The frequent or long absence of the master and mistress from home, by dissolving the bounds of domestic government, proves a fruitful fource of vice among children and fervants. To prevent in some degree, the inconveniencies which arise from the necessary abfence of the heads of a family, from home, it would be a good practice to invest the eldest fon or daughter, when of a fuitable age, with the government of the family and to make them responsible for their conduct, upon

the return of their parents. Government in a family is like an electric rod to a house. Where it is wanting a family is exposed to the attacks of every folly and vice, that come within the sphere of its attraction.

II. Frequent and large entertainments weaken domeftic government, by removing children and fervants too long from the eye of authority. They moreover, expose children and fervants to the temptation of eatting and drinking to excess.

III. Boys and girls fhould never be admitted as fervants—into a genteel family. They are feldom inftructed properly, by their mafters or miftreffes. Their leifure hours are moreover fpent in bad company: and all the vices which they pick up, are fpread among the children of the family, who are generally more prone to affociate with them, than with any other. Where poverty or death makes it neceffary to bind out children, they fhould be bound to those perfons only, who will work with them. By these means, they will be trained to industry, and kept from idleness and vice.

IV. Servants, both male and female should always be hired by the year, otherwise no proper government can be established over them. The impertinence and irregular conduct of servants, arise from their holding their places by too short a tenure. It would be a good law to fine every person, who hired a servant, without a written good character, signed by his last master,

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and counterligned by a magistrate. This practice: would foon drive bad fervants out of the civilized parts: of our country and thereby prevent much evil both in families and fociety. How many young men and women have carried through life the forrowful marks in their conficiences or characters, of their being early initiated into the mysteries of vice, by unprincipled fervants of both fexes ! Servants that are married, should be preferred to such as are single. Matrimony in all ranks of people less the temptation to vice, and furnishes fresh motives to just conduct.

V. Apprentices fhould always board and lodge, if poffible, with their mafters and miftreffes, when they are feparated from their parents. Young people feldom fall into bad company in the day time. It is in the evening, when they ceafe to be fubject to government, that they are in the most danger of corruption : and this danger can be obviated only by fubjecting all their hours to the direction of their masters or mistreffes.

I shall conclude this address, by suggesting to ministers of the gospel, a plan of a new species of sederal government for the advancement of morals in the United States. Let each sect appoint a representative in a general convention of christians, whose business shall be, to unite in promoting the general objects of christianity. Let no matters of faith or opinion ever be introduced into this convention, but let them be considered as badges of the sovereignty of each particular sect. To prevent all disputes, let the objects of the deliberations of this general convention be ascertained with the fame accuracy, that the powers of the national government are defined in the new constitution of the United States. By this previous compact, no encroachments will ever be made by the general government, upon the principles-difcipline-or habits of any one fectfor in the present state of human nature, the division of christians into sects, is as necessary to the existence and prefervation of christianity, as the division of mankind into nations, and of nations into separate families are neceffary to promote general and private happinefs. By means of fuch an inftitution, christian charity will be promoted, and the discipline of each church will be strengthened-for I would propose, that a dismission for immorality, from any one church, should exclude a man from every church in the ecclefiastical union. But the advantages of this christian convention will not end here. It will posses an influence over the laws of the United States. This influence will differ from that of most of the ecclesiastical affociations that have existed in the world. It will be the influence of reason over the passions of men. Its objects will be morals, not principles, and the defign of it will be, not to make men zealous members of any one church, but to make them-good neighbours-good husbands-good fathers -good masters-good servants-and of course good

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rulers and good citizens. The plan is certainly a practicable one. America has taught the nations of Europe by her example to be free, and it is to be hoped fhe will foon teach them to govern themfelves. Ler her advance one ftep further—and teach mankind, that it is poffible for chriftians of different denominations to love each other, and to unite in the advancement of their common interefts. By the gradual operation of fuch natural means, the kingdoms of this world are probably to become the kingdoms of the prince of righteoufnefs and peace.

Philadelphia, June 21, 1788.

AN ENQUIRY INTO THE CONSISTENCY OF OATHS WITH REASON AND CHRISTIANITY.

In discussing this question, I shall first mention the objections to oaths, which are founded in reason; and, secondly, the objections to them which are derived from the precepts and spirit of the christian religion.

I. Oaths produce an idea in the minds of men, that there are two kinds or degrees of truth; the one intended for common, and the other for folemn occasions. Now, this idea is directly calculated to beget a want of reverence for the inferior kind of truth; hence men are led to trifle with it in the common affairs of human life. I grant that fome men will tell the truth, when urged to it by the folemn formalities of an oath, who would not otherwife do it : But this proves the great mischief of oaths in society; for as men are called upon to fpeak the truth 999 times in common life, to once they are called upon to fwear to it, we have exactly 999 falfehoods to one truth told by How extensive, then, must be the mischief of them. this great 'difproportion between truth and falsehood, in all the affairs of human life! It is wrong to do

any thing that shall create an idea of two kinds of truth. There is a scale of falsehoods; but truth has no degrees or subdivisions. Like its divine author, it is ma eternal unchangeable UNIT.

II. The practice of fwearing according to human laws, appears to be the caufe of all profane fwearing, which is fo univerfal among all ranks of people in common converfation; for if there are two modes of fpeaking the truth, it is natural for men to prefer that mode which the laws of our country have entitled to the first degree of credibility: hence men fwear, when they wish to be believed, in common conversation.

III. Oaths have been multiplied upon fo many trifling occasions, that they have ceased, in a great degree, to operate with any force upon the most folemn occasions: hence the universal prevalence of *perjury* in courts, armies and custom-houses, all over the world. This fact is fo notorious in Jamaica, that a law has lately been passed in that island, which requires a bond of f. 200, instead of an oath, from every captain that enters his vessel in the custom-house, as a fecurity for his veracity in the manifest of his cargo, and for the amount of his duties to the government.

Reason and scripture (when perfectly understood) are never contrary to each other; and revelation from God can never give a fanction to that which is so

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evidently abfurd, and unfriendly to the interefts of hud man fociety. Let us proceed then to examine the bible, and here we shall find, that oaths are as contrary to the precepts and spirit of christianity as they are to sound reason.

Before I mention either the precepts or the fpirit of the gofpel, which militate against oaths, I shall mention a few of the cases of swearing which I find upon record in the New Testament. I shall first mention the precedents in favour of this practice, and then the precepts and precedents against it.

The *first* precedent I shall produce, is taken from the example of the devil, who address our Saviour in an oath, in Mark v. 7. "What have I to do with thee, Jesus, thou fon of the most high God? I adjure thee by God that thou torment me not."

A *fecond* precedent is taken from the example of the high prieft, who addreffes our Saviour in an oath in Matthew, xxvi. 63. "I adjure thee," fays he, juft before he confents to his death, " by the *living Ged*, that thou tell us whether thou be the Chrift the fon of God." It has been faid that there was no impropriety in this mode of expression, otherwise our Saviour would have rebuked it: but let it be remembered, that he stood before the tribunal of a highprieft, as a *prifoner*, and not as a *teacher*; and hence we find he submits in *filence* to all the prophane infults that were offered him. In this filent submission

on to infult, he moreover fulfilled an ancient prophefy " he is brought as a lamb to the flaughter and as a fheep before his fhearers is dumb, fo he openeth not his mouth" Ifaiah LIII. 7.

Peter furnishes a third instance of swearing. "And again he denied" (fays Matthew, chap. XXVI. 72.) " with an oath, I know not the man." It would seem from this account, that a bare offirmation was so characteristic of a disciple of Jesus Christ, that Peter could not use a more direct method to convince the maid, who charged him with being a follower of Jesus of Nazareth, that he was not a christian, than by having recourse to the Jewish and pagan practice of taking an oath.

Herod furnishes a *fourth* inftance of fwearing, in Matthew XIV. 7, when he promifed to give the daughter of Herodias whatever she should alk of him: she asked for John the baptist's head in a charger: the king repented of his hasty promise; "nevertheles, for the oath's sake, and them which fat with him at meat, he commanded it to be given her." Here it is evident he would have violated a common prosaise. But if common promises are not held facred, and binding, there is an end of a great portion of truth in fociety, and of all the order and happiness which arise from it. To fecure constant and universal truth, men should facer always or not at all.

A fifth precedent for fwearing we find in the xix of Acts and 13th verfe. "Then certain of the vagabond Jews, exorcifts, took upon them to call over them which had evil fpirits, the name of the Lord Jefus, faying, we adjure thee, by Jefus whom Paul preacheth. And the man in whom the evil fpirit was, leaped on them, and overeame them; fo that they fled out of the houfe naked and wounded."

The *laft* precedent for fwearing that I fhall mention, is the one related in Acts xxiii. 21ft. It contains an account of forty men who had bound themfelves, by *an oatb*, not to eat or drink, until they had killed St. Paul. It would feem that this banditti knew each other perfectly, and that they would not act together under the form of a common obligation. The occasion indeed, seems to require an oath. It was an affociation to commit murder. I am dispofed to sufficient that oaths were introduced originally to compel men to do things that were contrary to justice, or to their conficiences.

In mentioning the precepts and precedents that are to be found in the new testament against swearing, the following striking passage, taken from Matthew v. verses 34, 35, 36, 37, should alone determine the question. "Swear not at all, neither by heaven, for it is God's throne; nor by the earth, for it is his footstool; nor by Jerusalem, for it is the city of the

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great king. Neither shalt thou swear by thy head, because thou canst not make one hair white or black But let your communication be yea, yea; nay, nay; for whatsoever is more than these, cometh of evil."

The words of the apoftle James, are equally pointed against swearing, chap. v. 12. "But above all things my brethren, swear not, neither by heaven, neither by the earth, neither by any other oath; but let your yea, be ye2, and your nay, nay; lest ye fall into condemnation."

I know, these passages are faid to be levelled only against profane swearing in common conversation, but this will appear improbable when we reflect, that our Saviour's words were addressed exclusively to his disciples, and that the epistle of St. James, from whence the prohibition of swearing is taken, is directed to a number of pious converts to christianity, none of whom, any more than the disciples of our Lord, could be suspected of profane swearing in common converfation. Both passages equally condemn oaths of every kind, and demonstrate their contrariety to the gospel dispensation.

There is a peculiar meaning in the reafon which is given for the prohibition of fwearing in the precept, of our Saviour, viz. that any thing more than a bare affirmation, *cometh of evil*. Yes, it came originally from the univerfal prevalance of falfehood in fociety; but the christian religion, by opening new fources of

moral and religious obligation, and by discovering more fully the beauty and rewards of truth and deformity, and future punifhment of falfehood, has rendered the obligation of oaths wholly unnecessary. They comport d with the feeble difcoveries of the Jewish, and the numerous corruptions of the pagan religions; but they are unnecessary under that full and clear manifestation of the divine will which is contained in the gospe!. Cæsar's wife should not be suspected .-- With how much more propriety should this be faid of the veracity of a christian, than of the chastity of the wife of a heathen emperor. Every time a christian fwears, he exposes the purity and truth of his religion to suspicion. " As for you, Petrarch, your word is fufficient," faid the cardinal Colonna, in an enquiry into the cause of a riot that had happened in his family, while that celebrated poet was a member of it; and in which he exacted an oath from every other member of his family, not excepting his own brother, the bishop of Luna. The fame address should be made to every christian, when he is called upon to declare the truth. "You believe in a future state of rewards and punishment-you profets to be the follower of that Being who has inculcated a regard for truth, under the awful confideration of his omniscience, and who has emphatically ftyled himfelf the TRUTH." Your word, therefore is sufficient.

A nobleman is permitted, by the laws of England, to declare the truth upon his *honsur*. The profession of christianity is declared in scripture to be an high calling, and christians are faid to be *prists* and *kings*. Strange! that perfons of fuch high rank, should be treated with lefs respect than English noblemen; and still more strange! that perfons possessing these august titles should be ray their illustrious birth and dignity, by conforming to a practice which tends for much to invalidate the truth and excellency of their religion.

It is very remarkable, that in all the accounts we have of the intercourfe of our Saviour with his difciples, and of their fubfequent intercourfe with each other, there is no mention made of a fingle oath being taken by either of them.

Perhaps there never was an event in which the higheft degrees of evidence were more neceflary, than they were to eftablifh the truth of the refurrection of our Saviour, as on the truth of this miracle depended the credibility of the chriftian religion. But in the eftablifhment of the truth of this great event, no oath is taken, or required. The witneffes of it fimply relate what they faw, and are believed by all the difciples except one, who fill **gemembered** too well the prohibition of his mafter, "twear net at all," to afk for an oath to remove his unbelief.

It is worthy of notice likewife, that no prepofterous oath of office is required of the difciples when they assume the apostolic character, and are font forth to

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preach the gospel to all nations. How unlike the fpirit of the gospel are those human constitutions and laws, which require oaths of fidelity, every year ! and which appear to be founded in the absurd idea that men are at all times the guardians of their own virtue.

There can be no doubt of christians having uniformly refused to take an oath in the first ages of the church: nor did they conform to this pagan custom, till after christianity was corrupted by a mixture with many other parts of the pagan and Jewish religions.

There are two arguments in favour of oaths which are derived from the new testament, and which remain to be refuted .-- ist St. Paul uses several expreffions in his epiftles which amount to oaths, and even declares "an oath to be the end of strife." It was the character of St. Paul, that he became all things to all men. He circumcised as well as baptized Jews, and he proves the truth of revelation by a quotation from a heathen poet. Oaths were a part of the Jewish and pagan institutions-and, like feveral other ceremonies, for some time, continued to retain a ftrong hold of the prejudices of the new converts to christianity. But the above words of the Apostle, which have been urged in favor of fwearing, are by no means intended to apply to common life. They have a retrospect to the promise made to Abraham of the coming of the Melliah, and were defigned to shew the

certainty of that event in a language which was accommodated to the idea of the Jewish nation.

2d. It has been faid, that the great Jehovah frequently fwears, both in the old and new teftament, and that the angel who is to found the laft trumpet will "fwear that time fhall be no more." Every expression of this kind should be confidered as an accomodation to Jewish and pagan customs, in order to render the truths of revelation more intelligible and acceptable. The Supreme Being, for the same reasons, often affumes to himfelf the violent passions, and even the features and fenses of men; and yet who can suppose it proper to afcribe either of them to a Being, one of whose perfections confists in his existing as a pure unchangeable spirit.

If oaths are contrary to reafon, and have a permicious influence upon morals and the order of fociety; and above all, if they are contrary to the precepts and fpirit of the gofpel; it becomes legislators and ministers of the gofpel to confider how far they are refponfible for all the falsehood, profane fwearing and perjury that exift in fociety. It is in the power of legislators to abolifh oaths, by expunging them from our laws; and it is in the power of ministers of the gofpel, by their influence and example, to render truth fo fimple and obligatory, that human governments fhail be afhamed to alk any other mode of declaring it, from *Chriftians*, than by a bare affirmation.

The friends of virtue and freedom have beheld, with great pleafure, a new confliction eftablished in the United States, whose objects are *peace*, union and justice. It will be in the power of the first congress that shall act under this confliction, to set the world an example of enlightened policy, by framing laws that shall command obedience without the absurd and improper obligation of oaths. By this means they will add the restoration and establishment of TRUTH, to the great and valuable objects of the constitution that have been mentioned.

Jun. 20 1789.

AN ENQUIRY INTO THE EFFECTS OF PUBLIC PU-NISHMENTS UPON CRIMINALS, AND UPON SOCIETY. READ IN THE SOCIETY FOR PROMOTING POLITI-CAL ENQUIRIES, CONVENED AT THE HOUSE OF BENJAMIN FRANKLIN, ESQ. IN PHILADELPHIA, MARCH 9th, 1787.

"Accustomed to look up to those nations from whom we have derived "our origin, for our laws, our opinions, and our manners; we have re-"tained, with undifting lishing reverence, their errors, with their im-"provements; have blend d, with our public institutions, the policy of "aidfimilar countries; and have grafted, on an infant commonwealth, "the manners of ancient and corrupted monarchies." PREFACE TO THE LAWS OF THE SOCIETY FOR POLITICAL ENQUIRIES.

THE defign of punifhment is faid to be, 1ft, to reform the perfon who fuffers it ; 2dly, to prevent the perpetration of crimes, by exciting terror in the minds of fpectators; and, 3dly, to remove those perfons from fociety, who have manifested, by their tempers and crimes, that they are unfit to live in it.

From the first institution of governments, in every age and country (with but a few exceptions) legislators have thought that punishments should be *public*, in order to answer the two sirst of these intentions. It will require some fortitude to combat opinions that have been fanctified by such long and general prejudice, and fupported by univerfal practice. But truth in government, as well as in philofophy, is of progreflive growth. As in philofophy, we often arrive at truth by rejecting the evidence of our feafes; fo in government, we often arrive at it, after divorcing our first thoughts. Reason, though deposed and oppressed, is the only just fovereign of the human mind. Discoveries, it is true, have been made by accident; but they have derived their credit and usefulness only from their according with the decisions of reason.

In medicine, above every other branch of philosophy, we perceive many inftances of the want of relation between the apparent cause and effect. Who, by reasoning a priori, would suppose, that the hot regimen was not preferable to the cold, in the treatment of the finall-pox? But experience teaches us, that this is not the cafe. Caufe and effect appear to be related in philosophy, like the objects of chemistry. Similar bodies often repel each other, while bodies that are diffimilar in figure, weight and quality, often unite together with impetuofity. With our prefent imperfect degrees of knowledge of the properties of bodies, we can discover these chemical relations only by experiment. The same may be faid of the connection between caufe and effect, in many parts of government. This connection often accords with reason. while it is repugnant to our fenfes-and when this is not the cafe, from our inability to perceive it, it forces

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our confent from the testimony of experience and obfervation.

It has been remarked, that the profession of arms owes its present rank, as a fcience, to its having been refcued, fince the revival of letters, from the hands of mere foldiers, and cultivated by men acquainted with other branches of literature. The reason of this is plain. Truth is an unit. It is the fame thing in war—philofophy—medicine—morals—religion and government; and in proportion as we arrive at it in one fcience, we shall discover it in others.

After this apology, for diffenting from the eftablifhed opinions and practice, upon the fubject of public punifhments, I fhall take the liberty of declaring, that the great ends propofed, are not to be obtained by them; and that, on the contrary, all *public* punifhments tend to make bad men worfe, and to increase crimes, by their influence upon fociety.

I. The reformation of a criminal can never be effected by a public punifhment, for the following reafons.

Ift. As it is always connected with infamy, it deftroys in him the fenfe of fhame, which is one of the ftrongeft out-pofts of virtue.

2dly. It is generally of fuch fhort duration, as to produce none of those changes in body or mind, which are absolutely necessary to reform obstinate habits of vice.

3dly. Experience proves, that public punifhments have increased propensities to crimes. A man who has lost his character at a whipping post, has nothing valuable left to lose in society. Pain has begotten insenfibility to the whip; and infamy to shame. Added to his old habits of vice, he probably feels a spirit of revenge against the whole community, whose laws have inflicted his punifhment upon him; and hence he is ftimulated to add to the number and enormity of his outrages upon fociety. The long duration of the punishment, when public, by increasing its infamy, ferves only to increase the evils that have been mentioned. The criminals, who were fentenced to work in the prefence of the City of London, upon the Thames, during the late war, were prepared by it, for the perpetration of every crime, as foon as they were fet at liberty from their confinement. I proceed,

II. To shew, that public punishments, so far from preventing crimes by the terror they excite in the minds of spectators, are directly calculated to produce them.

All men, when they fusfer, discover either fortitude, infensibility, or distres. Let us inquire into the effects of each of these upon the minds of spectators.

Ift. Fortitude is a virtue, that feizes fo forcible upon our efteem, that wherever we fee it, it never fails to weaken, or to obliterate, our deteftation of the crimes with which it is connected in criminals. " I call upon

" you,' faid major Andre, at the place of execution to his attendants " to bear witnefs, gentlemen, that " I die like a brave man." The effect of this fpeech upon the American army is well known. The fpy was loft in the hero: and indignation, every where, gave way to admiration and praise. But this is not all: the admiration, which fortitude, under suffering, excites, has in fome inftances excited envy. In Denmark uncommon pains are taken to prepare criminals for death, by the conversation and instructions of the clergy. After this, they are conducted to the place of execution with uncommon pomp and folemnity. The criminals, under these circumstances, suffer death with meeknefs-piety-and fometimes with dignity. These effects of this, I have been well informed have been, in feveral inftances, to induce deluded people to feign or confess crimes, which they had never committed, on purpose to secure to themselves a conspicuous death, and a certain entrance into happinefs. There is fomething in the prefence of a number of fpectators, which is calculated to excite and firengthen fortitude in a fufferer. "It is not foj difficult a thing," faid Lewis XIV. to his courtiers, who flood round his death-bed, " to die, as I expected." " No " wonder," fays Voltaire, who relates this anecdote, " for all men die with fortitude, who die in company." The bravery of foldiers is derived in a great degree, from the operation of this principle in the human mind.

adly. If criminals different infenfibility under their punifhments, the effect of it must be still more fatal upon fociety. It removes, instead of exciting terror. In fome instances, I conceive it may excite a defire in the minds of perfons whom debt or fecret guilt has made miserable, to feek an end of their distresses in the fame enviable apathy to evil. Should this infensibility be connected with chearfulnes, which is fometimes the case, it must produce still more unfriendly effects upon fociety. But terrible must be the confequence of this infensibility and chearfulnes, if they should lead criminals to retaliate upon the inhuman curiofity of spectators, by profane or indecent infults or conversation.

3dly. The effects of diftrefs in criminals, though lefs obvious are not lefs injurious to fociety, than fortitude or infenfibility. By an immutable law of our nature, diftrefs of all kinds, when *feen*, produces fympathy, and a difpofition to relieve it. This fympathy, in generous minds, is not leffened by the diftrefs being the offspring of crimes: on the contrary, even the crimes themfelves are often palliated by the reflection that they were the unfortunate confequences of extreme poverty—of feducing company—or of the want of a virtuous education, from the lofs or negligence of parents in early life. Now, as the diftrefs which the criminals fuffer, is the effect of a law of the ftate, which cannot be refifted, the fympathy of the fpectator is rendered abortive, and returns empty to the

bofom in which it was awakened. Let us briefly examine the confequences of this abortive fympathy in fociety. It will not be neceffary here to dwell upon all the advantages of this principle in human nature. It will be fufficient to obferve, that it is the vicegerent of the divine benevolence in our world. It is intended to bind up all the wounds which fin and death have made among mankind. It has founded hofpitals—erected charity-fchools—and connected the extremes of happinefs and mifery together in every part of the globe. Above all, fenfibility is the centinel of the moral faculty. It decides upon the quality of the actions before they reach that divine principle of the foul. It is of itfelf, to ufe the words of an elegant female poet*,

"A hafty moral-a fudden fense of right."

If fuch are the advantages of fenfibility, now what must be the confequences to fociety, of extirpating or weakening it in the human breast? But public punishments are calculated to produce this effect. To prove this, I must borrow an analogy from the animal economy.—The fensibility of the human body is faid to be active and paffive. The first is connected with motion and fensation; the fecond only with fensation, The first is increased, the fecond is diminished, by the repetition of impressions. The fame phænomena take place in the human mind. Sensibility here is both active and passive. Passive fensibility is heliened, while that which

* Mif. Moore.

is active is increased by habit. The passive fensibility of a physician, to the distress of his patients, is always, diminished, but his active fensibility is always increased by time; hence we find young physicians feel most— but old physicians, with less feeling, difcover most fympathy with their patients.

If fuch be the constitution of our minds, then the effects, of diffrefs upon them will be, not only to deftroy passive, but to eradicate active sensibility from them. The principle of fympathy, after being often opposed by the law of the state, which forbids it to relieve the distress it commiserates, will cease to act altogether; and, from this defect of action, and the habit arising from it, will foon lofe its place in the Misery of every kind will then be human breast. contemplated without emotion or fympathy .--- The widow and the orphan-the naked-the fick, and the prisoner, will have no avenue to our fervices or our charity-and what is worfe than all, when the cen_ tinel of our moral faculty is removed, there is nothing to guard the mind from the inroads of every positive vice.

I pais over the influence of this fympathy in its first operation upon the government of the state. While we pity, we secretly condemn the law which inflicts the punishment: hence, arises a want of respect for was in general, and a more seeble union of the great ties of government.

I have only to add, upon this part of my fubject, that the pernicious effects of fympathy, where it does not terminate in action, are happily provided againft by the Jewish law. Hence we read of a prohibition against it where perfons fusfer for certain crimes. To spectators, the voice of heaven, under such circumstances, is, " thine eye shall not pity him."

4thly. But it is possible the characters or conduct of criminals may be fuch, as to excite indignation or contempt instead of pity, in the minds of spectators. Let us there enquire, briefly, into the effects of these passions upon the human mind. Every body acknowledges our obligations to universal benevolence; but these cannot be fulfilled, unless we love the whole human race, however diversified they may be by weakness or crimes. The indignation or contempt which is felt for this unhappy part of the great family of mankind, must necessarily extinguish a large; portion of this univerfal love. Nor is this all the men, or perhaps the women whole perfons we deteft, posses fouls and bodics composed of the fame materials as those of our friends and relations. They are bone of their bone; and were originally fashioned with the fame spirits. What, then, must be the confequence of a familiarity with fuch objects of horror, upon our attachments and duties to our friends and connections, or to the reft of mankind? If a spectator should give himself time to reslect upon such a sight of human depravity, he would naturally

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recoil from the embraces of friendship, and the endear. ments of domestic life, and perhaps fay with an unfortunate great man, after having experienced an inftance of treachery in a friend, " Oh! that I were a dog, " that I might not call man my brother." The Jewish law forbade more than nine and thirty lashes, lest the sufferer should afterwards become "vile" in the fight of spectators. It is the prerogative of God alone, to contemplate the vices of bad men, without withdrawing from them the support of his benevolence. Hence we find, when he appeared in the world, in the perfon of his Son, he did not exclude criminals from the benefits of his goodness. He dismissed a women caught in the perpetration of a crime, which was capital by the Jewish law, with a friendly admonition: and he opened the gates of paradife to a dying thief.

5thly. But let us fuppofe, that criminals are viewed without fympathy—indignation —or contempt.—This will be the cafe, either when the fpectators are themfelves hardened with vice, or when they are too young, or too ignorant, to connect the ideas of crimes and punifhments together. Here, then, a new fource of injury arifes from the public nature of punifhments. Every portion of them will appear, to fpectators of this defeription, to be mere arbitrary acts of cruelty: hence will arife a difposition to exercise the fame arbitrary cruelty over the feelings and lives of their fellow creatures. To fee blows, or a halter, impofed

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in cold blood upon a criminal, whofe paffive behaviour, operating with the ignorance of the fpectators, indicates innocence more than vice, cannot fail of removing the natural obstacles to violence and murder in the human mind.

6thly. Public punifhments make many crimes known to perfons who would otherwife have paffed through life in a total ignorance of them. They moreover produce fuch a familiarity, in the minds of fpectators, with the crimes for which they are inflicted, that, in fome inftances, they have been known to excite a propenfity for them. It has been remarked, that a certain immorality has always kept pace with public admonitions in the churches in the eaftern ftates. In proportion as this branch of ecclefiaftical difcipline has declined, fewer children have been born out of wedlock.

7thly. Ignominy is univerfally acknowledged to be a worfe punifhment than death Let it not be fuppofed, from this circumftance, that it operates more than the fear of death in preventing crimes. On the contrary, like the indifcriminate punifhment of death, it not only confounds and levels all crimes, but by increasing the difproportion between crimes and punifhments, it creates a hatred of all law and government; and thus difpofes to the perpetration of every crime. Laws can only be refpected and obeyed, while they bear an exact proportion to crimes.—The law which punifhes the flooting of a fwan with death, in England, has produced a thoufand murders. Nor is this all the mifchievous influence, which the punifhment of ignominy has upon fociety. While murder is punifhed with death, the man who robs on the high-way, or breaks open a houfe, muft want the common feelings and principles which belong to human nature, if he does not add murder to theft, in order to foreen himfelf, if he flould be detected, from that punifhment which is acknowledged to be more terrible than death.

It would feem ftrange, that ignominy fhould ever have been adopted, as a milder punifhment than death, did we not know that the human mind feldom arrives at truth upon any fubject, till it has first reached the extremity of error.

8thly. But may not the benefit derived to fociety, by employing criminals to repair public roads, or to clean fireets, overbalance the evils that have been mentioned? I anfwer, by no means. On the contrary, befides operating in one, or in all the ways that have been deferibed, the practice of employing criminals in public labour, will render labour of every kind difreputable, more effecially that fpecies of it, which has for its objects the convenience or improvement of the flate. It is a well-known fact, that white men foon decline labour in the Weft Indies, and in the fouthern flates, only becaufe the agriculture, and mechanical

employments of those countries, are carried on chiefly by negro flaves. But I object further to the employ_ ment of criminals on the high-ways and ftreets, from the idlenefs it will create, by alluring fpectators from their bufinefs, and thereby depriving the ftate of greater benefits from the industry of its citizens, than it can ever derive from the labour of criminals.

The history of public punishments, in every age and country, is full of facts, which support every principle that has been advanced. What has been the operation of the feventy thousand executions, that have taken place in Great Britain from the year 1688, to the prefent day, upon the morals and manners of the inhabitants of that island ? Has not every prison-door that has been opened, to conduct criminals to public fhame and punishment, unlocked, at the fame time, the bars of moral obligation upon the minds of ten times the number of people? How often do we find pockets picked under a gallows, and highway robberies committed in fight of a gibbet? From whence arole the confpiracies, with affaffinations and poifonings, which prevailed in the decline of the Roman empire? Were they not favoured by the public executions of the amphitheatre? It is therefore to the combined operation of indelence, prejudice, ignorance and the defect of culture of the human heart, alone, that we are to afcribe the continuance of public punifhments, after fuch long and multiplied experience of their inefficacy to reform bad men, or to prevent the commission of crimes.

III. Let it not be supposed, from any thing that has been faid, that I wish to abolish punishments. Far from it: I wish only to change the place and manner of inflicting them, so as to render them effectual for the reformation of criminals, and beneficial to society. Before I propose a plan for this purpose, I beg leave to deliver the following general axioms:

and the set

1st. The human mind is difposed to exaggerate every thing that is removed from it, by time or place.

2dly. It is equally difposed to enquire after, and to magnify fuch things as are facred.

3dly. It always afcribes the extremes in qualities, to things that are unknown; and an excess in duration, to indefinite time.

4thly. Certain and definite evil, by being long contemplated, ceafes to be dreaded or avoided. A foldier foon lofes, from habit the fear of death in battle; but retains, in common with other people, the terror of death from ficknefs or drowning.

5 thly. An attachment to kindred and fociety is one of the ftrongeft feelings of the human heart. A fepeparation from them, therefore has ever been confidered as one of the fevereft punifhments that can be inflisted upon man.

6thly. Perfonal liberty is fo dear to all men, that the lofs of it, for an indefinite time, is a punifhment fo fevere, that death has often been preferred to it.

These axioms being admitted (for they cannot be controverted) I shall proceed next to apply them, by suggesting a plan for the punishment of crimes, which, I flatter myself, will answer all the ends that have been proposed by them.

1. Let a large house be crected in a convenient part of the state. Let it be divided into a number of apartments, referving one large room for public worfnip. Let cells be provided for the folitary confinement of fuch perfons as are of a refractory temper. Let the house be supplied with the materials, and instruments for carrying on such manufactures as can be conducted with the least instruction, or previous knowledge. Let a garden adjoin this house, in which the culprits may occafionally work, and walk. This fpot will have a beneficial effect not only upon health, but morals, for it will lead them to a familiarity with those pure and natural objects which are calculated to renew the connection of fallen man with his creator. Let the name of this house convey an idea of its benevolent and falutary defign, but let it by no means be called a prison, or by ony other name that is associated with what is infamous in the opinion of mankind. Let the direction of this inflitution be committed to

perfons of established characters for probity, discretion and humanity, who shall be amenable at all times to the legislature, or courts of the state.

2dly. Let the various kinds of punifhment, that are to be inflicted on crimes, be defined and fixed by law. But let no notice be taken, in the law, of the punifhment that awaits any particular crime. By thefe means, we fhall prevent the mind from accuftoming itfelf to the view of thefe punifhmeats, fo as to deftroy their terror by habit. The indifference and levity with which fome men fuffer the punifhment of hanging, is often occafioned by an infenfibility which is contracted by the frequent anticipation of it, or by the appearance of the gallows fuggefting the remembrance of feenes of criminal feftivity, in which it was the fubject of humour or ridicule. Befides, punifhments fhould always be varied in degree, according to the temper of criminals, or the progrefs of their reformation.

3dly. Let the duration of punifhments, for all crimes be limitted : but let this limitation be unknown I conceive this fecret to be of the utmost importance in reforming criminals, and preventing crimes. The imagination, when agitated with uncertainty, will feldom fail of connecting the longest duration of punishment, with the smallest crime.

I cannot conceive any think more calculated to diffufe terror through a community, and thereby to

prevent crimes, than the combination of the three cir_ cumftances that have been mentioned in punifhments. Children will prefs upon the evening fire in liftening to the tales that will be fpread from this abode of mifery. Superflition will add to its horrors: and romance will find in it ample materials for fiction, which cannot fail of increasing the terror of its punishments,

Let it not be objected, that the terror produced by the hiftory of these fecret punishments, will operate like the abortive sympathy I have described. Active sympathy can be fully excited only through the avenues of the eyes and the ears. Bealdes, the recollection that the only design of punishment is the reformation of the criminal will sufferent the action of sympathy altogether. We listen with pakeness to the history of a tedious and painful operation in furgery, without a wish to arrest the hand of the operator. Our sympathy, which in this case is of the passive kind, is mixed with pleasure, when we are assured, that there is a certainty of the operation being the means of faving the life of the sufferer.

Nor let the expence of erecting and fupporting a house of repentance, for the purposes that have been mentioned, deter us from the undertaking. It would be easy to demonstrate, that it will not cost one fourth as much as the maintenance of the numerous jails that are now necessary in every well regulated ftate. But why fhould receptacles be provided and fupported at an immense expense, in every country, for the relief of persons afflicted with bodily diforders, and an objection be made to providing a place for the cure of the diseases of the mind?

The nature—degrees—and duration of the punifhments, fhould all be determined beyond a certain degree, by a court properly conftituted for that purpofe, and whose business it should be to visit the receptacle for criminals once or twice a year.

I am aware of the prejudices of freemen, against entrusting power to a diferentionary court. But let it be remembered, that no power is committed to this court, but what is possessed by the different courts of justice in all free countries; nor fo much as is now wifely and necessarily possessed by the supreme and inferior courts, in the execution of the penal laws of Pennfylvania. I shall spend no time in defending the consistency of private punishments, with a safe and free government. Truth, upon this subject, cannot be divided. If public punifhments are injurious to criminals and to fociety, it follows that crimes should be punished in private, or not punished at all. There is no alternative. The opposition to private punishments, therefore is founded altogether in prejudice, or in ignorance of the true principles of liberty.

The fafety and advantages of private punifhments, will appear, further, when I add, that the best governed families and schools are those, in which the faults of fervants and children are rebuked privately, and where confinement and solitude are preferred for correction, to the use of the rod.

In order to render these punishments effectual, they should be accommodated to the constitutions and tempers of the criminals, and the peculiar nature of their crimes. Peculiar attention should be paid, likewise, in the nature, degrees, and duration of punishments, to crimes, as they arise from passion, habit or temptation.

The punifhments, fhould confift of bodily pain, labour, watchfulnefs, folitude, and filence. They fhould all be joined with cleanlinefs and a fimple diet. To afcertain the nature, degrees, and duration of the bodily pain, will require fome knowledge of the principles of fenfation, and of the fympathies which occur in the nervous fyftem. The labour fhould be fo regulated and directed, as to be profitable to the ftate. Befides employing criminals in laborious and ufeful manufactures, they may be compelled to derive all their fubfiftance from a farm and a garden, cultivated by their own hands, adjoining the place of their confinement.

These punishments may be used separately, or more or less combined, according to the nature of the crimes, or according to the variations of the conftitution and temper of the criminals. In the application of them, the utmost possible advantages should be taken of the laws of the affociation of ideas, of habit, and of imitation.

To render these physical remedies more effectual they should be accompanied by regular instruction in the principles and obligations of religion, by persons appointed for that purpose.

Thus far I am supported, in the application of the remedies I have mentioned, for the cure of crimes, by the facts contained in Mr. Howard's hiftory of prisons, and by other observations. It remains yet to prescribe the *specific* punishment that is proper for each specific crime. Here my subject begins to oppres me. I have no more doubt of every crime having its cure in moral and phylical influence, than I have of the efficacy of the Peruvian bark in curing the intermitting fever. The only difficulty is, to find out the proper remedy or remedies for particular vices. Mr Dufriche de Valaye, in his elaborate treatife upon penal laws, has performed the office of a pioneer upon this difficult subject. He has divided crimes into clasfes; and has affixed punifhments to each of them, in a number of ingenious tables. Some of the connections he has established, between crimes and punishments, appear to be just. But many of his punishments are contrary to the first principles of action in man;

and all of them are, in my opinion, improper, as far. as he orders them to be inflicted in the eye of the public. His attempt, however, is laudable, and deterves the praise of every friend to mankind.

If the invention of a machine for facilitating labour, has been repaid with the gratitude of a country, how much more will that man deferve, who fhall invent the most fpeedy and effectual methods of restoring the vicious part of mankind to virtue and happines, and of extirpating a portion of vice from the world? Happy condition of human affairs! when humanity, philofophy and christianity, shall unite their influence to teach men, that they are brethren; and to prevent their preying any longer upon each other! Happy citizens of the United States, whose governments permit them to adopt every discovery in the moral or intellectual world, that leads to these benevolent purposes!

Let it not be objected, that it will be impoffible for men, who have explated their offences by the mode of punifhment that has been proposed, to recover their former connections with fociety. This objection arises from an unfortunate affociation of ideas. The infamy of criminals is derived, not fo much from the remembrance of their crimes, as from the recollection of the ignominy of their punishments. Crimes produce a stain, which may be washed out by reformation, and which frequently wears away by time; but public punifhments leave fcars which disfigure the whole character; and hence perfons, who have fuffered them, are ever afterwards viewed with horror or averfion. If crimes were expiated by private difcipline, and fucceeded by reformation, criminals **would** probably fuffer no more in character from them, than men fuffer in their reputation or usefulness from the punishments they have undergone when boys at fchool.

I am fo perfectly fatisfied of the truth of this opinion, that methinks I already hear the inhabitants of our villages and townships counting the years that shall complete the reformation of one of their citizens. I behold them running to meet himon the day of his deliverance. His friends and family bathe his cheeks with tears of joy; and the universal shout of the neigbourhood is, "This our brother was lost, and is found—was dead and is alive."

It has long been a defideratum in government, that there fhould exift in it no pardoning power, fince the *certainty* of punifhment operates fo much more than its feverity, or infamy, in preventing crimes. But where punifhments are exceflive in degree, or infamous from being public, a pardoning power is abfolutely neceffary. Remove their feverity and public infamy, and a pardoning power ceafes to be neceffary in a code of criminal jurifprudence. Nay, further—it is fuch a defect in penal laws, as in fome measure defeats every invention to prevent crimes, or to cure habits of vice. If punifhments were moderate, juft, and private, they would exalt the feelings of public juftice and benevolence fo far above the emotions of humanity in witnefies, juries and judges, that they would forget to conceal, or to palliate crimes; and the *certainty* of punifhment, by extinguifhing all hope of pardon in the criminal, would lead him to connect the beginning of his repentance with the laft words of his fentence of condemnation. To obtain this great and falutary end, there fhould exift *certain* portions of punifhment, both in duration and degree, which fhould be placed by law beyond the power of the difcretionary court before mentioned, to fhorten or mitigate.

I have faid nothing upon the manner of inflicting death as a punishment for crimes, because I confider it as an improper punifhment for any crime. Even murder itself is propagated by the punishment of death for murder. Of this we have a remarkable proof in Italy. The duke of Tufcany foon after the publication of the marquis of Beccaria's excellent treatife upon this fubject, abolished death as a punishment for murder. A gentleman, who refided five year, at Pifa, pformed me, that only five murders had been perpetrated in his dominions in twenty years. The same gentleman added, that after his refigence in Tuscany, he spent three months in Rome, where death is still the punishment of murder, and where executions, according to Dr. Moore, are conducted with peculiar circumstances of public parade. During this short period, there were fixty murders committed in the precincts of that city. It is remarkable, the manners, principles, and religion, of the inhabitants of Tuscany and Rome, are exactly the same. The abolition of death alone, as a punishment for murder, produced this difference in the moral character of the two nations.

I suspect the attachment to death, as a punishment for murder, in minds otherwife enlightened, upon the subject of capital punishments, arifes from a false interpretation of a passage contained in the old testament, and that is, " he that sheds the blood of man, by man shall his blood be shed." This has been fuppofed to imply that blood could only be expiated by blood. But I am disposed to believe, with a late commentator* upon this text of fcripture, that it is rather a prediction than a law. The language of it is fimply, that fuch will be the depravity and folly of man, that murder, in every age, shall beget murder. Laws, therefore, which inflict death for murder, are, in my opinion, as unchristian as those which justify or tolerate revenge; for the obligations of christianity upon individuals, to premote repentance, to forgive injuries, and to discharge the duties of univerfal benevolence, are equally binding upon states.

The power over human life, is the fole perogative of him who gave it. Human laws, therefore,

^{*} The reverend Mr. William Turner, in the fecond vol. of Memoirs of the Literary and Philosophical Society of Manchester.

rife in rebellion against this prerogative, when they transfer it to human hands.

If fociety can be fecured from violence, by confining the murderer, fo as to prevent a repetition of his crime, the end of extirpation will be anfwered. In confinement, he may be reformed : and if this fhould prove impracticable, he may be reftrained for a term of years, that will probably, be coeval with his life.

There was a time, when the punifhment of captives with death or fervitude, and the indiferiminate deftruction of peaceable hufbandmen, women, and children, were thought to be effential, to the fuccefs of war, and the fafety of flates. But experience has taught us, that this is not the cafe. And in proportion as humanity has triumphed over thefe maxims of falfe policy, wars have been lefs frequent and terrible, and nations have enjoyed longer intervals of internal tranquility. The virtues are all parts of a circle. Whatever is humane, is wife—whatever is wife, is juft—and whatever is wife, juft, and humane, will be found to be the true intereft of flates, whether criminals or foreign enemies are the objects of their legiflation.

I have taken no notice of perpetual banifhment, as a legal punifhment, as I confider it the next in degree, in folly and cruelty, to the punifhment of death. If the receptacle for criminals, which has been proposed, is crected in a remote part of the state, it will act with the same force upon the seelings of the human heart, as perpetual banishment. Exile, when perpetual, by destroying one of the most powerful principles of action in man, viz. the love of kindred and country, deprives us of all the advantages, which might be derived from it, in the business of reformation. While certain passions are weakened, this noble passion is strengthened by age: hence, by preferving this passion alive, we furnish a principle, which, in time may become an overmatch for those vicious habits, which separated criminals from their friends and from fociety.

Notwithstanding this testimony against the punishment of death and perpetual banishment, I cannot help adding, that there is more mercy to the criminal, and les injury done to fociety, by both of them, than by *public* infamy and pain, without them.

The great art of furgery has been faid to confift in faving, not in deftroying, or amputating the difeafed parts of the human body. Let governments learn to imitate, in this refpect, the fkill and humanity of the healing art. Nature knows no wafte in any of her operations. Even putrefaction itfelf is the parent of ufeful productions to man. Human ingenuity imitates nature in a variety of arts. Offal maters, of all kinds, are daily converted into the means of increasing the profits of industry, and the pleasures of human life.

The foul of man alone, with all its moral and intellectual powers, when milled by passion, is abandoned, by the ignorance or cruelty of man, to unprofitable corruption, or extirpation.

A worthy prelate of the church of England once faid upon feeing a criminal led to execution, "There goes my wicked felf." Confidering the vices to which the frailty of human nature exposes whole families of every rank and class in life, it becomes us, whenever we fee a tellow creature led to public infamy and pain, to add further. "There goes my unhappy father, my unhappy brother, or my unhappy fon," and afterwards to afk ourfelves, whether *private* punishments are not to be preferred to *public*.

For the honour of humanity it can be faid, that in every age and country, there have been found perfons in whom uncorrupted nature has triumphed over cuftom and law. Elfe, why do we hear of houfes being abandoned near to places of public execution? Why do we fee doors and windows fhut on the days or hours of criminal exhibitions? Why do we hear of aid being fecretly afforded to criminals, to mitigate or elude the feverity of their punifhments? Why is the public executioner of the law an object of fuch general deteftation? Thefe things are latent ftruggles of reafon, or rather the fecret voice of God himfelf, fpeaking in the human heart, againft the folly and cruelty of public punifhment.

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I shall conclude this enquiry by observing, that the fame false religion and philosophy, which once kindled the fire on the alter of perfecution, now doom the criminal to public ignominy and death. In proportion as the principles of philosophy and christianity are understood, they will agree in extinguishing the one, and destroying the other. If these principles continue to extend their influence upon government, as they have done for fome years past, I cannot help entertaining a hope, that the time is not very distant, when the gallows, the pillory, the ftocks, the whipping-post and the wheel-barrow, (the usual engines of public punishments) will be connected with the history of the rack and the stake, as marks of the barbarity of ages and countries, and as melancholy proofs of the feeble operation of reason and religion upon the human mind.

AN ENQUIRY INTO THE CONSISTENCY OF THE PUNISE. MENT OF MURDER BY DEATH, WITH REASON AND REVELATION.

I. THE Punishment of Murder by Death, is contrary to *reason*, and to the order and happiness of society.

1. It leffens the horror of taking away human life, and thereby tends to multiply murders.

2. It produces murder by its influence upon people who are tired of life, and who, from a fuppolition that murder is a lefs crime than fuicide, deftroy a life (and often that of a near connection) and afterwards deliver themfelves up to the laws of their country, that they may effcape from their mifery by means of a halter.

3. The punifhment of murder by death multiplies murders, from the difficulty it creates of convicting perfons who are guilty of it. Humanity, revolting at the idea of the feverity and certainty of a capital punificment, often fleps in, and collects fuch evidence in favour of a murderer, as fercens him from death altogether, or palliates his crime into manificughter. Even the law itfelf favours the acquital of a murderer

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by making the circumftance of premeditation and malice, neceffary to render the offence, a capital crime. Mr. Townfend tells us in his travels into Spain^{*} that feventy murders were perpetrated in Malaga in the 16 months which preceeded his vifit to that city, all of which efcaped with impunity, and probably from the caufes which have been mentioned. If the punifhment of murder confifted in long confinement, and hard labour, it would be proportioned to the meafure of our feelings of juffice, and every member of focicty would be a watchman, or a magiftrate, to apprehend a deftroyer of human life, and to bring him to punifhment.

4. The punishment of murder by death checks the operations of universal justice, by preventing the punishment of every species of murder.

5. The punifhment of murder by death has been proved to be contrary to the order and happinels of fociety, by the experiments of fome of the wifeft legiflators in Europe. The Empress of Rufia, the King of Sweden, and the Duke of Tufcany, have nearly extirpated murder from their dominions, by converting its punifhments into the means of benefiting fociety, and reforming the criminals who perpetrate it.

II. The punishment of murder by death is contrary to divine revelation. A religion which commands

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us to forgive, and even to do good to, our enemics, can never authorife the punishment of murder by death. "Vengence is mine," faid the Lord; "I will repay." It is to no purpose to fay here, that this vengeance it taken out of the hands of an individual, and directed against the criminal by the hand of government. It is equally an usurpation of the prerogative of heaven, whether it be inflicted by a fingle person, or by a whole community.

Here I expect to meet with an appeal from the letter and fpirit of the gofpel, to the law of Mofes, which declares, " he that killeth a man shall be put to death." Forgive, indulgent heaven! the ignorance and cruelty of man, which, by the misapplication of this text of scripture, has so long and so often stained the religion of Jesus Christ with folly and revenge.

The following confiderations, I hope, will prove that no argument can be deduced from this law, to justify the punishment of murder by death;—on the contrary, that feveral arguments against it, may be derived from a just and rational explanation of that part of the Levitical institutions.

r. There are many things in scripture above, but nothing contrary to, reason. Now, the punishment of murder by death, is contrary to reason. It cannot, therefore, be agreeable to the will of God. BY DEATH.

2. The order and happinels of fociety cannot fail of being agreeable to the will of God. But the punishment of murder by death, destroys the order and happinels of fociety. It must therefore be contrary to the will of God.

3. Many of the laws given by Moles, were accommodated to the ignorance, wickednels, and "hardnels " of heart," of the Jews. Hence their divine legiflator expressly fays, " I gave them statutes that were " not good, and judgments whereby they should not live." Of this, the law which respects divorces, and the law of retaliation, which required, " an eye for " an eye, and a tooth for a tooth," are remarkable instances.

But we are told, that the punifhment of murder by death, is founded not only on the law of Mofes, but upon a politive precept given to Noah and his pofterity, that " wholo fheddeth man's blood, by man fhall his blood be fhed," If the interpretation of this text given in a former effay* be not admitted, I shall attempt to explain it by remarking, that foon after the flood, the infancy and weakness of fociety rendered it impossible to punish murder by confinement. There was therefore no medium between inflicting death upon a murderer, and fuffering him to escape with impunity, and thereby to perpetrate more acts of violence against his fellow creatures. It pleafed God, in this condition of the world, to permit a less, in

* Enquiry into the effects of public punifiments, paren.

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order to prevent a greater evil. He therefore commits for a while his exclusive power over human life, to his creatures for the fafety and prefervation of an infant society, which might otherwise have perished, and with it, the only flock of the human race. The command indirectly implies that the crime of murder was not punished by death in the mature state of socicty which existed before the flood. Nor is this the only instance upon record in the scriptures in which God has delegated his power over human life to his creatures. Abraham expresses no surprise at the command which God gave him to facrifice his fon. He fubmits to it as a precept founded in reason and natural justice, for nothing could be more obvious, than that the giver of life had a right to claim it, when and in fuch manner as he pleafed. 'Till men are able to give life, it becomes them to tremble at the thought of taking it away. Will a man rob God ?-Yes-he robs him of what is infinitely dear to him-of his darling attribute of mercy, every time he deprives a fellow creature of life.

4. If the Mofaic law, with refpect to murder, be obligatory upon Christians, it follows that it is equally obligatory upon them to punish adultery, blasphemy and other capital crimes that are mentioned in the Levitical law, by death. Nor is this all: it justifies the extirpation of the Indians, and the enflaving of the Africans; for the command to the Jews to destroy the Canaanites, and to make flaves of their heathen neighbours, is as positive as the command which declares, "that he that killeth a man, shall furely be put to death."

5. Every part of the Levitical law, is full of types of the Meffiah. May not the punifhment of death, inflicted by it, be intended to represent the demerit and confequences of fin, as the cities of refuge were the offices of the Meffiah? And may not the enlargement of murderers who had fled to those cities of refuge, upon the death of a high priest, represent the eternal abrogation of the law which inflicted death for murder, by the meritorious death of the Saviour of the world?

6. The imperfection and feverity of these laws were probably intended farther—to illustrate the perfection and mildness of the gospel dispensation. It is in this manner that God has manifested himself in many of his acts. He created darkness first, to illustrate by comparison the beauty of light, and he permits fin, misery, and death in the moral world, that he may hereaster display more illustriously the blessings of righteousness, happiness, and immortal life. This opinion is favoured by St. Paul, who fays, " the " law made nothing perfect, and that it was a " shadew of good things to come."

How delightful to difcover fuch an exact harmony between the dictates of reason, the order and hap-

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pinefs of fociety, and the precepts of the gofpel! There is a perfect unity in truth. Upon all fubjects —in all ages—and in all countries—truths of every kind agree with each other. I fhall now take notice of fome of the common arguments, which are made use of, to defend the punishments of murder by death.

1. It has been faid, that the common fense of all nations, and particularly of favages, is in favour of punishing murder by death.

The common fense of all nations is in favour of the commerce and flavery of their fellow creatures. But this does not take away from their immorality. Could it be proved that the Indians punish murder by death, it would not establish the right of man over the life of a fellow creature; for revenge we know in its utmost extent is the universal and darling passion of all favage nations. The practice morever, (if it exist) must have originated in necessity: for a people who have no fettled place of refidence, and who are averse from all labour, could restrain murder in no other way. But I am difpofed to doubt whether the Indians punish murder by death among their own In all those cases where a life is taken away tribes. by an Indian of a foreign tribe, they always demand the fatisfaction of life for life. But this practice is founded on a defire of preferving a balance in their numbers and power; for among nations which confift of only a few warriors, the lofs of an individual

often destroys this balance, and thereby exposes them to war or extermination. It is for the fame purpole of keeping up an equality in numbers and power, that they often adopt captive children into their nations and families. What makes this explanation of the practice of punishing murder by death among the Indians more probable, is, that we find the fame bloody and vindictive fatisfaction is required of a foreign nation, whether the perfon loft, be killed by an accident, or premeditated violence. Many facts might be mentioned from travellers to prove that the Indians do not punish murder by death within the jurisdiction of their own tribes. I shall mention only one, which is taken from the Rev. Mr. John Megapolenfis's account of the Mohawk Indians, lately published in Mr Hazard's historical collection of state papers.--- " There is no punifhment, (fays our author) " here for murder, but every one is his own avenger. " The friends of the deceased revenge themselves " upon the murderer until peace is made with the " next a kin. But although they are fo cruel, yet " there are not half fo many murders committed " among them as among Christians, notwithstanding " their fevere laws, and heavy penalties."

2. It has been faid, that the horrors of a guilty conficience proclaim the justice and necessity of death, as a punishment for murder. I draw an argument of another nature from this fact. Are the horrors of conficience the punishment that God inflicts upon

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murder? Why, then should we shorten or destroy them by death, especially as we are taught to direct the most atrocious murderers to expect pardon in the future world? No, let us not counteract the government of God in the human breast : let the murderer live—but let it be to fuffer the reproaches of a guilty conficience; let him live, to make compensation to fociety for the injury he has done it, by robbing it of a citizen; let him live to maintain the family of the man whom he has murdered; let him live, that the punishment of his crime may become universal; and, lastly, let him live, that murder may be extirpated from the list of human crimes !

Let us examine the conduct of the moral Ruler of the world towards the first murderer.-See Cain, returning from his field, with his hands reeking with the blood of his brother! Do the heavens gather blackness, and does a flash of lightning blast him to the carth? No. Does his father Adam, the natural legislator and judge of the world, inflict upon him the punifhment of death? No. The infinitely wife God becomes his judge and executioner. He expels him from the fociety of which he was a member. He fixes in his confcience a never dying worm. He fubjects him to the necessity of labour; and to fecure a duration of his punishment, proportioned to his crime, he puts a mark of prohibition upon him, to prevent his being put to death, by weak and angry men; declaring, at the fame time, that " whofoever flayeth

BY DEATH.

"Cain, vengeance shall be taken on him sevenfold.

But further, if a neceffary connection exifted between the crime of murder and death in the mind and laws of the Deity, how comes it that Mofes and David cfcaped it? They both imbrued their hands in innocent blood, and yet the horrors of a guilty confeience were their only punifhment. The fubfequent conduct of those two great and good men, proves that the heart may retain a found part after committing murder, and that even murderers, after repentance, may be the vehicles of great temporal and fpiritual bleffings to mankind.

3 The declaration of St. Paul before Feftus, respecting the punishment of death, * and the speech of the dying thief on the cross, \dagger are faid to prove the lawfulness of punishing murder by death: but they prove only that the punishment of death was agreeable to the Roman law. Human life was extremely cheap under the Roman government. Of this we need no further proof than the head of John the Baptist forming a part of a royal entertainment. From the frequency of public executions, among those people, the *fword* was confidered as an emblem of public justice. But to

* " For if I be an offender, and have committed any thing worthy of " death, I refuse not to die." —— Acts xxv. and 11.

+ "We indeed" fuffer " jufily, for we receive the due reward of our "deeds."---Luke xxiii. and 4.1.

fuppofe, from the appeals which are formetimes made to it as a fign of juffice, that capital punifhments are approved of in the New Teftament, is as abfurd as it would be to fuppofe that horfe-racing was a chriftian exercife, from St. Paul's frequent allufions to the Olympic games.

The declaration of the barbarians upon feeing the fnake faften upon St. Paul's hand, proves nothing but the ignorance of those uncivilized people ;—" and " when the barbarians faw the venomous beast hang on " his hand, they faid among themselves, no doubt this " man is a murderer, whom, though he hath escaped " the fea, yet vengeance suffereth not to live."—Acts xvii. and 4th.

Here it will be proper to diffinguish between the fense of juffice to universal among all nations, and an approbation of death as a punishment for murder. The former is written by the finger of God upon every human heart, but like his own attribute of juffice, it has the happiness of individuals and of fociety for its objects. It is always misled, when it feeks for fatisfaction in punishments that are injurious to fociety, or that are dispropertiened to crimes. The fatisfaction of this universal fense of juffice by the punishments of imprisonment and labour, would far exceed that which is derived from the punishment of death; for it would be of longer duration, and it would more frequently occur; for, upon a principle formerly mentioned, scarcely any species of murder would escape with impunity.

The conduct and discourses of our Saviour should outweigh every argument that has been or can be offered in favour of capital punishment for any crime When the woman caught in adultery was brought to him, he evaded inflicting the bloody fentence of the Jewish law upon her Even the mainting of the body appears to be offenfive in his fight; for when Peter drew his fword, and fmote off the ear of the fervant of the high prieft, he replaced it by miracle, and at the fame time declared, that " all they who take the " fword, shall perish with the fword." He forgave the crime of murder, on his crofs; and after his refurrection, he commanded his disciples to preach the gospel of forgiveness, first at Jerusalem, where he well knew his murderers still refided. These striking facts are recorded for our imitation, and feem intended to shew that the Son of God died, not only to reconcile God to man, but to reconcile men to each other. There is one passage more, in the history of our Saviour's life which would of itfelf overfet the

‡ A feale of punishments, by means of imprifonment and labour, might cafily be contrived, fo as to be accomodated to the different degrees of atrocity in murder. For example—for the first or highest degree of guilt, let the punishment be folitude and darkness, and a total *vease* of employment. For the fecond, folitude and labour, with the benefit of light. For the third, confinement and labour. The *duration* of these punishments thould likewise be governed by the atrocity of the murder, and by the fights of contrition and amendment in the criminal.

justice of the punishment of death for murder, if every other part of the Bible had been filent upon the fubject. When two of his disciples, actuated by the fpirit of vindictive legislators, requested permission of him to call down fire from Heaven to confume the inholpitable Samaritans, he answered them " The " Son of Man is not come to defiring men's lives but " to fave them." I wish these words composed the motto of the arms of every nation upon the face of the earth. They inculcate every duty that is calculated to preferve, restore, or prolong human life. They militate alike against war-and capital punishments-the objects of which, are the unprofitable destruction of the lives of men. How precious does a human life appear from these words, in the fight of heaven! Pause, Legislators, when you give your votes for inflicting the punishment of death for any crime You frustrate in one instance, the design of the mission of the Son of God into the world, and thereby either deny his appearance in the flefh, or reject the truth of his gospel. You, moreover, ftrengthen by your conduct the arguments of the Deifts against the particular doctrines of the Christian revelation. You do more, you preferve a bloody fragment of the Jewish institutions .- " The Son of " Man came not to deftroy men's lives, but to fave " them " Excellent words! I require no others to fatisfy rad of the truth and divine original of the Chriftian religion; and while I am able to place a finger, upon this text of feripture, I will not believe an angel

from heaven, should he declare that the punishment of death, for any crime, was inculcated, or permitted by the spirit of the gospel.

The precious nature of human life in the eyes of the Saviour of mankind, appears further in the comparative value which he has placed upon it in the following words.^{*} "For what is a man profited, if he fhall gain the whole world, & lofe his life, or what fhall a man give in exchange for his *life*." I have rejected the word *foul* which is ufed in the common translation of this verse. The original word in the Greek, fignifies *life*, and it is thus happily and justly translated in the verse which precedes it.

4. If has been faid, that a man who has committed a murder, has difcovered a malignity of heart, that renders him ever afterwards unfit to live in human fociety. This is by no means true in many, and perhaps in most of the cafes of murder. It is most frequently the effect of a fudden gust of passion, and has fometimes been the only stain of a well-spent, or inosfensive life. There are many crimes which unfit a man much more for human society, than a single murder; and there have been instances of murderers, who have escaped, or bribed the laws of their country, who have afterwards become peaceable and useful members of society. Let it not be supposed that I

* Matthew, x. v. 26.

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wifh to palliate, by this remark, the enormity of murder. Far from it. It is only becaufe I view murder with fuch fuperlative horror, that I with t^o deprive our laws of the power of perpetuating and encouraging it.

It has been faid, that the confessions of murderers have, in many inftances, fanctioned the justice of their punishment. I do not wish to lessen the influence of fuch vulgar errors as tend to prevent crimes, but I will venture to declare, that many more murderers escape discovery, than are detected, or punished .--Were I not afraid of trespassing upon the patience of my readers, I might mention a number of facts, in which circumstances of the most trifling nature have become the means of detecting theft and forgery; from which I could draw as ftrong proofs of the watchfulnefs of Providence over the property of individuals, and the order of fociety, as have been drawn from the detection of murder. In ight mention initances, likewife, of perfons in whom confeience has produced reftitution for ftolen goods, or confession of the justice of the punishment which was inflicted Conficence and knowledge always keep for thest. pace with each other, both with respect to divine and human laws.

The acquiescence of murderers in the justice of their execution, is the effect of prejudice and education. It cannot flow from a conficence acting in concert with reason or religion-for they both speak a very different language.

The world has certainly undergone a material change for the better within the last two hundred years. This change has been produced chiefly, by the fecret and unacknowledged influence of Christianity upon the hearts of men. It is agreeable to trace the effects of the Christian religion in the extirpation of flavery-in the diminution of the number of capital punishments, and in the mitigation of the horrors of war. There was a time when masters possessed a power over the lives of their flaves. But Christianity has deposed this power, and mankind begin to fee every where that flavery is alike contrary to the interests of fociety, and the spirit of the gospel. There was a time when torture was part of the punishment of death, and when the number of capital crimes in Great Britain, amounted to one hundred and fixty-one. Christianity has abolished the former, and reduced the latter to not more than fix or feven. It has done It has confined, in foine inftances, capital more. punishments to the crime of murder-and in some countries it has abolished it altogether. The influence of Christianity upon the modes of war, has still been more remarkable. It is agreeable to trace its progrefs.

1st. In refcuing women and children from being the objects of the defolations of war, in common with men.

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2dly.In preventing the destruction of captives taken in battle, in cold blood.

3dly. In protecting the peaceable hufbandman from fharing in the carnage of war.

4thly. In producing an exchange of prifoners, instead of dooming them to perpetual flavery.

5thly. In avoiding the invalion or destruction, in certain cases, of private property.

6thly. In declaring all wars to be unlawful but fuch as are purely defensive.

This is the only tenure by which war now holds ifs place among Christians. It requires but litle ingenuity to prove that a defensive war cannot be carried on fuccefsfully without offenfive operations. Already the princes and nations of the world difcover the struggles of opinion or conscience in their preparations for war. Witnefs the many national difputes which have been lately terminated in Europe by negociation, or mediation. Witnefs too, the establishment of the constitution of the United States without force or bloodshed. These events indicate an improving state of human affairs. They lead us to look forward with expectation to the time, when the weapons of war shall be changed into implements of husbandry, and when rapine and violence shall be These events are the promised fruits of no more. If they do not come to pass, the prophets the gospel.

have deceived us. But if they do-war must be as contrary to the spirit of the gospel, as fraud, or murder, or any other of the vices which are reproved or extirpated by it.

P. S. Since the publication of this effay and the preceeding one, the Author has had the pleafure of feeing his principles reduced to practice in the State of Pennfylvania, in the abolition of the punifhment of death for all crimes, (the highest degree of murder excepted) and in private punishments being fubstituted to those which were public. The effects of this reformation in the penal laws of our state have been, a remarkable diminution of crimes of all kinds, and a great encrease of convictions in a given number of offenders. The expenses of the houle appropriated to the punifhment of criminals have been more than defrayed by the profits of their labor. Many of them have been reformed, and become useful members of fociety, and very few have' relapfed into former habits of vice.

The Author is happy in adding, that a reformation in the penal laws of the states of New York and New Jersey has taken place, nearly similar to that which has been mentioned, in Pennsylvania.

It would be an act of injuffice in this place not to acknowledge that the principles contained in the foregoing effays, would probably have never been realized, had they not been fupported and enforced by the elo-

quence of the late William Bradford Efq. and the zeal of Caleb Lownes. To both these gentlemen, humanity and reason owe great obligations. Mr. Lownes has demonstrated by facts, the fuccefs of fchemes of philanthrophy, once deemed visionary and impracticable. His plans for employing, and reforming his unfortunate fellow creatures in the Philadelphia prison, discover great knowledge of the acconomy of the body, and of the principles of action in the mind. To comprehend fully the ingenuity and benevolence of these plans. it will be necessary to visit the prison. There science and religion exhibit a triumph over vice and mifery, infinitely more fublime and affecting, than all the monuments of ancient conquests. It is thus the father of the human race has decreed the ultimate extermination of all evil, viz. by manifestations of love to his fallen creatures. For the details of the discipline, order, products of labor, &c. of this prison, the reader is referred to two elegant pamphlets, the one by Mr. De Liancourt, of France, the other by Mr. Turnbull of South Carolina.

July, 4 1797.

A PLAN OF A PEACE-OFFICE FOR THE UNITED STATES.

A MONG the defects which have been pointed out in the federal confliction by its antifederal enemies, it is much to be lamented that no perfon has taken notice of its total filence upon the fubject of an office of the utmost importance to the welfare of the United States, that is, an office for promoting and preferving perpetual peace in our country.

It is to be hoped that no objection will be made to the eftablishment of fuch an office, while we are engaged in a war with the Indians, for as the War-Office of the United States was established in the time of peace, it is equally reafonable that a Peace-Office should be established in the time of war.

The plan of this office is as follows :

I. Let a Secretary of the Peace be appointed to prefide in this office, who fhall be perfectly free from all the prefent abfurd and vulgar European prejudices upon the fubject of government; let him be a genuine republican and a fincere Chriftian, for the principles of republicanifm and Chriftianity are no lefs friendly to univerfal and perpetual peace, than they are to univerfal and equal liberty.

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II. Let a power be given to this Secretary to effablish and maintain free-schools in every city, village and township of the United States; and let him be made responsible for the talents, principles, and morals, of all his schoolmasters. Let the youth of our country be carefully instructed in reading, writing, arithmetic, and in the doctrines of a religion of fome kind: the Christian religion should be preferred to all others; for it belongs to this religion exclusively to teach us not only to cultivate peace with men, but to forgive, nay more-to love our very enemies. It belongs to it further to teach us that the Supreme Being alone poffesse power to take away human life, and that we rebel against his laws, whenever we undertake to execute death in any way whatever upon any of his creatures.

III. Let every family in the United States be furnifhed at the public expense, by the Secretary of this office, with a copy of an American edition of the BIBLE. This measure has become the more necessary in our country, fince the banishment of the bible, as a school-book, from most of the schools in the United States. Unless the price of this book be paid for by the public, there is reason to fear that in a few years it will be met with only in courts of justice or in magistrates' offices; and should the absurd mode of establishing truth by killing this facted book fail into difuse, it may probably, in the course of the next

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generation, be seen only as a curiosity on a shelf in a public museum.

IV. Let the following fentence be inferibed in letters of gold over the doors of every State and Court house in the United States.

THE SON OF MAN CAME INTO THE WORLD, NOT TO DESTROY MEN'S LIVES, BUT TO SAVE THEM.

V. To infpire a veneration for human life, and an horror at the shedding of human blood, let all those laws be repealed which authorise juries, judges, sheriffs, or hangmen to assume the refertments of individuals and to commit murder in cold blood in any case whatever. Until this reformation in our code of penal jurisfprudence takes place, it will be in vain to attempt to introduce universal and perpetual peace in our country.

VI. To fubdue that passion for war, which education, added to human depravity, have made universal, a familiarity with the inftruments of death, as well as all military shows, should be carefully avoided. For which reason, militia laws should every where be repealed, and military dress and military titles should be laid aside: reviews tend to lesson the horrors of a battle by connecting them with the charms of order; militia laws generate idleness and vice, and thereby produce the wars they are faid to prevent; military dress fascinate the minds

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of young men, and lead them from ferious and useful professions; were there no uniforms, there would probably be no armies; lastly, military titles feed vanity, and keep up ideas in the mind which lessen a fense of the folly and miseries of war.

VII. In the last place, let a large room, adjoining the federal hall, be appropriated for transacting the business and preferving all the records of this office. Over the door of this room let there be a sign, on which the sigures of a LAMB, a DOVE and an OLIVE BRANCH should be painted, together with the following inscriptions in letters of gold :

PEACE ON EARTH-- GOOD WILL TO MAN. AH! WHY WILL MIN FORGET THAT THEY ARE BRETHREN ?

Within this apartment let there be a collection of ploughfhares and pruning-hooks made out of fwords and fpears; and on each of the walls of the apartment, the following pictures as large as the life:

1. A lion eating straw with an ox, and an adder playing upon the lips of a child.

2. An Indian boiling his venifon in the fame pot with a citizen of Kentucky.

Madeira wine together out of the fame decanter.

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4. A group of French and Auftrian foldiers dancing arm and arm, under a bower erected in the neighbourhood of Mons.

5. A St. Domingo planter, a man of color, and a native of Africa, legislating together in the same colonial affembly.[†]

To complete the entertainment of this delightful apartment, let a group of young ladies, clad in white robes, affemble every day at a certain hour, in a gallery to be erected for the purpose, and fing odes, and hymns, and anthems in praise of the bleffings of peace.

One of these fongs should consist of the following lines.

Peace o'er the world her olive wand extends, And white-rob'd innocence from heaven defcends; All crimes shall cease, and ancient frauds shall fail, Returning justice lifts alof: her scale.

In order more deeply to affect the minds of the citizens of the United States with the bleffings of peace, by *contrafting* them with the evils of war, let the following inferiptions be painted upon the fign, which is placed over the door of the War Office.

1. An office for butchering the human species.

2. A Widow and Orphan making office.

+ At the time of writing this, there existed wars between the United States and the American Indians, between the British nation and Tippoo Saib, between the planters of St Domingo and their African flaves, and between the French nation and the emperor of Germany.

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3. A broken bone making office.

4. A Wooden leg making office.

5. An office for creating public and private vices.

6. An office for creating a public debt.

7. An office for creating speculators, stock Jobbers, and Bankrupts.

8. An office for creating famine.

• An office for creating pestilential diseases.

10. An office for creating poverty, and the destruction of liberty, and national happines.

In the lobby of this office let there be painted reprefentations of all the common military inftruments of death, alfo human fkulls, broken bones, unburied and putrifying dead bodies, hofpitals crouded with fick and wounded Soldiers, villages on fire, mothers in befieged towns eating the flefh of their children, fhips finking in the ocean, rivers dyed with blood, and extensive plains without a tree or fence, or any other object, but the ruins of deferted farm houses.

Above this group of woeful figures,—let the following words be inferted, in red characters to represent human blood,

" NATIONAL GLORY."

INFORMATION TO EUROPEANS WHO ARE DISPOSED TO MIGRATE TO THE UNITED STATES OF AMERICA. IN A LETTER TO A FRIEND IN GREAT BRITAIN.

GREEABLY to your requeft contained in your letter of the 29th of Auguft, 1789, Ihave at last fat down to communicate fuch facts to you, upon the fubject of migration to this country, as have been the refult of numerous enquiries and obfervation. I am aware that this fubject has been handled in a mafterly manner by Doctor Franklin, in his excellent little pamplet, entitled " Advice to those who would wish " to remove to America," but as that valuable little work is very general, and as many important changes have occurred in the affairs of the United States fince its publication, I shall endeavour to comply with your wishes, by adding fuch things as have been omitted by the Doctor, and shall accommodate them to the prefent flate of our country.

I shall begin this letter by mentioning the descriptions of people, who ought not to come to America.

I Men of independent fortunes who can exift only in company, and who can converse only upon public amusements, should not think of settling in the United States. I have known several men of that character in this country, who have rambled from State to State, complaining of the dulness of each of them, and who have finally returned and renewed their former connexions and pleasures in Europe.

II. Literary men, who have no professional pursuits, will often languish in America, from the want of fociety. Our authors and fcholars are generally men of business, and make their literary pursuits subservient to their interests. A lounger in book stores, breakfasting parties for the purpose of literary conversation, and long attic evenings, are as yet but little known in this country. Our companies are generally mixed, and conversation in them is a medley of ideas upon all fubjects. They begin as in England with the weather -foon run into politics -now and then diverge into literature-and commonly conclude with facts relative to commerce, manufactures and agriculture, and the best means of acquiring and improving an eftate. Men, who are philosophers or poets, without other pursuits, had better end their days in an old country.

III. The United States as yet afford but little encouragement to the professers of most of the fine arts. Painting and sculpture flourish chiefly in wealthy and luxurious countries. Our native American portrait painters who have not sought protection and encouragement in Great Britain, have been obliged to travel occasionally from one State to another in order to support themselves. The teachers of music have been more fortunate in America. A taste for this accomplishment prevails very generally in our large cities: and eminent masters in that art, who have arrived here fince the peace, have received confiderable fums of money by exercising their profession among us.

I shall now mention those descriptions of people, who may better their condition by coming to America.

I. To the cultivators of the earth the United States open the first afylum in the world. To infure the fuccess and happiness of an European Farmer in our country, it is necessary to advise him either to purchase or to rent a farm which has undergone some improvement.

The business of settling a new tract of land, and that of improving a farm, are of a very different nature. The former must be effected by the native American, who is accustomed to the use of the axe and the grubbing hoe, and who poffeffes almost exclusively a knowledge of all the peculiar and namelefs arts of felf-prefervation in the woods. I have known many inftances of Europeans who have spent all their cash in unsuccessful attempts to force a settlement in the wilderness, and who have afterwards been exposed to poverty and distress at a great distance from friends and even ncighbours. I would therefore advise all farmers with moderate capitals, to purchase or rent improved farms in the old settlements of our States. The price and rent of these farms are different in the different parts of the union. In Pennsylvania, the price of farms

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is regulated by the quality of the land—by the value or the improvements which are erected upon it—by their vicinity to fea ports and navigable water—and by the goed or bad flate of the roads which lead to them. There is a great variety, of courfe, in the price of farms : while fome of them have been fold for five guineas others have been fold at lower prices, down to one guinea, and even half a guinea per acre, according as they were varied by the above circumftances.

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It is not expected that the whole price of a farm fhould be paid at the time of purchasing it. An half, a third, or a fourth, is all that is generally required. Bonds and mortgages are given for the remainder, (and sometimes without interest) payable in ^two, three, five, or even ten years.

The value of these farms has often been doubled and even trebled, in a few years, where the new mode of agriculture has been employed in cultivating them: fo that a man with a moderate capital, may, in the course of fifteen years, become an opulent and independent freeholder.

if, notwithstanding what has been faid of the difficulties of effecting an establishment in the woods, the low price of the new lands should tempt the European Farmer to settle in them, then let me add, that it can only be done by affociating himself in a large company, under the direction of an active and intelligent American farmer. To secure even a

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company of European settlers from disappointment and want in the woods, it will be necessary to clear a few acres of land the year before, and to fow them with grain, in order to provide subfistance for the company, till they can provide for themselves, by clearing their own farms. The difficulties of establishing this new fettlement, will be further lessened, if a few cabins, a grift and a faw mill be erected, at the fame time the preparations are made for the temporary subsistance of the company. In this manner, most of the first settlements of the New England men have been made in this country. One great advantage, attending this mode of fettling, is, a company may always carry with them a clergyman and a schoolmaster, of the 'fame religion and language with themselves. If a fettler in the woods should possels a taske for rural elegance, he may gratify it without any expense, by the manner of laying out his farm. He may shade his house by means of ancient and venerable forresttrees. He may leave rows of them standing, to adorn his lanes and walks-or clufters of them on the high grounds of his fields, to shade his cattle. If he should fix upon any of those parts of our western country, which are covered with the fugar-trees, he may inclose a sufficient number of them to supply his family with fugar; and may confer upon them at the same time the order and beauty of a fine or-In this manner, a highly improved feat may chard.

be cut out of the woods in a few years, which will furpafs both in elegance and value a farm in an old fettlement, which has been for twenty years the fubject of improvements in tafte and agriculture. To contemplate a dwelling-houfe—a barn—itables—fields —meadows—an orchard—a garden, &c. which have been produced from original creation by the labour of a fingle life, is, I am told, to the proprietor of them, one of the higheft pleafures the mind of man is capable of enjoying. But how much muft this pleafure be increafed, when the regularity of art is blended in the profpect, with the wildnefs and antiquity of nature ?

It has been remarked in this country, that clearing the land of its woods, fometimes makes a new fettlement unhealthy, by exposing its damp grounds to the action of the fun. To obviate this evil, it will be neceffary for the fettler either to drain and cultivate his low grounds, as foon as they are cleared, or to leave a body of trees between his dwelling house, and the spots from whence the morbid effluvia are derived. The last of these methods has, in no instance that I have heard of, failed of preferving whole families from such discases as arise from damp or putrid exhalations.

To country gentlemen, who have been accustomed to live upon the income of a landed eftate in Europe, it will be necessary to communicate the following information, viz. that farms, in confequence of the

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unproductive woodland, which is generally connected with them, feldom yield more than three or four per cent. a year in cash, except in the neighbourhood of large cities. Befides, from the facility with which money enough may be faved in a few years, to purchase land in this country, tenants will not accept of long leafes: and hence they are not fufficiently interested in the farms they rent, to keep them in repair. If country gentlemen wish to derive the greatest advantage from laying out their money in lands, they must refide in their vicinity. A capital of five thousand guineas, invested in a number of contiguous farms, in an improved part of our country, and cultivated by tenants under the eye and direction of a landlord, would foon yield a greater income than double that fum would in most parts of Europe. The landlord in this case must frequently visit and infpect the state of each of his farms : and new and then he must stop to repair a bridge or a fence in his excursions through them. He must receive all his rents in the produce of the farms. If the tenant find his own ftock, he will pay half of all the grain he raifes, and fometimes a certain proportion of vegetables and live flock, to his landlord. The division of the grain is generally made in the field, in fheaves or flacks, which are carried home to be thrashed in the barn of the landlord. An estated gentleman, who can reconcile himfelf to this kind of life, may be both happy and useful. He may instruct his

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tenants by his example, as well as precepts in the new modes of hufbandry : he may teach them the art and advantages of gardening : he may infpire them with habits of fobriety, induftry, and œconomy ; and thereby become the father and protector of a dependant and affectionate neighbourhood. After a bufy fummer and autumn, he may pafs his winters in polifhed fociety in any of our cities, and in many of our country villages.

But should he be difinclined to fuch extensive fcenes of business, he may confine his purchases and labours to a single farm, and fecure his supersuous cash in bonds and mortgages, which will yield him fix per cent.

Under this head, it is proper to mention, that the agricultural life begins to maintain in the United States, the fame rank that it has long maintained in Great Britain. Many gentlemen of education among us have quitted liberal professions, and have proved, by their fucces in farming, that philosophy is in no business more useful or profitable, than in agriculture.

II. MECHANICS and MANUFACTURERS, of every defeription, will find certain encouragement in the United States. During the connection of this country with Great Britain, we were taught to believe that agriculture and commerce fhould be the only purfuits of the Americans: but experiments and reflexion have taught us, that our country abounds with re-

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fources for manufactures of all kinds : and that most of them may be conducted with great advantage in all We are already nearly independent of the the states whole world for iron-work, paper, and malt liquors : and great progrefs has been made in the manufacturies of glafs, pot-ash, and cloths of all kinds. The commercial habits of our citizens have as yet prevented their employing large capitals in those manufacturies : but I am perfuaded that if a few European adventurers would embark in them ... ith capitals equal to the demand for those manufactures, they would foon find an immense profit in their speculations. Α fingle farmer in the state of New York, with a capital of five thousand pounds, has cleared one thousand a year by the manufacture of pot-ash alone.

Those mechanical arts, which are accomodated to the infant and simple state of a country, will bid fairest to fucceed among us. Every art, connected with cultivating the earth—building houses and ships, and feeding and clothing the body, will meet with encouragement in this country. The prices of provisions are fo different in the different states, and even in the different parts of the fame state, and vary fo much with the plenty and scarcity of money, that it would be difficult to give you such an account of them as would be useful. I need only remark, that the disproportion between the price of labour and of provisions, is much greater in every part of the United States, than in any part of Europe : and hence our tradestimen every where eat meat and butter every day: and moft of them realize the wifh of Henry IV. of France, for the peafants of his kingdom, by dining not only once, but two or three times, upon poultry, in every week of the year.

It is a fingular fact in the hiftory of the mechanical arts in this country, that the fame arts feldom descend from father to fon. Such are the profits of even the humblest of them, that the fons of mechanics generally rife from the lower to the more respectable occupations: and thus their families gradually ascend to the first ranks in fociety among us. The influence, which the profpects of wealth and confequence have in invigorating industry in every line of mechanical business, is very great. Many of the first men in America, are the fons of reputable mechanics or farmers. But I may go farther, and add, that many men, who diffinguished themfelves both in the cabinet and field, in the late war, had been mechanics. I know the British officers treated the American caufe with contempt, from this circumftance : but the event of the war flewed, that the confidence of America was not misplaced in that body of citizens.

III. LABOURERS may depend upon conftant employment in the United States, both in our towns and in the country. When they work by the day, they receive high wages : but these are feldom continued through the whole year. A labourer receives annually, with his boarding, washing, and lodging, from fifteen to eighteen guineas, in the middle states. It is agreeable to observe this class of men frequently raifed by their industry from their humble stations, into the upper ranks of life, in the course of twenty or thirty years.

IV. PERSONS who are willing to indent themfelves as fervants for a few years, will find that humble ftation no obftacle to a future establishment in our country. Many men, who came to America in that capacity, are now in affluent circumstances. Their former situation, where they have behaved well, does not preclude them from forming respectable connections in marriage, nor from sharing, if otherwise qualified, in the offices of our country.

V. The United States continue to afford encouragement to gentlemen of the *learned profeffions*, provided they be prudent in their deportment, and of fufficient knowledge : for fince the eftablifhment of colleges and fchools of learning in all our flates, the fame degrees of learning will not fucceed among us, which fucceeded fifty years ago.

Several lawyers and physicians, who have arrived here fince the peace, are now in good business: and many elergymen, natives of England, Scotland, and Ireland, are comfortably fettled in good parishes. A

minister of the gospel in a country place must not expect to have all his falary paid in cash : but he will notwithstanding seldom fail of obtaining a good subsistance from his congregation. They will furnish his table with a portion of all the live flock they raife for their own use: they will shoe his horses-repair his implements of husbandry, and assist him in gathering in his harvests, and in many other parts of the business of his farm. From these aids, with now and then a little cash, a clergyman may not only live well, but, in the course of his life, may accumulate an handfome estate for his children. This will more certainly happen, if he can redeem time enough from his parochial duties, and the care of his farm, to teach a fchool. The people of America are of all fects : but the greatest part of them are of the independent, presbyterian, epifcopal, baptist, and methodist denominations. The principles held by each of these societies in America are the fame as those which are held by the protestant churches in Europe, from which they derive their origin.

VI. SCHOOLMASTERS of good capacities and fair characters may excepct to meet with encouragement in the middle and fouthern ftates. They will fucceed better, if they confine their inftructions to reading, writing, Englifh grammar, and the fciences of number and quantity. Thefe branches of literature are of general necessity and utility : and of course every

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township will furnish scholars enough for the maintenance of a schoolmaster. Many young men have risen by means of the connexions they have formed in this useful employment, to rank and consequence in the learned professions in every part of this country.

From this account of the United States, you will cafily perceive, that they are a hot-bed for industry and genius in almost every human pursuit. It is inconceivable how many ufeful difcoveries necessity has produced within these few years, in agriculture and manufactures, in our country. The fame necessity has produced a versatility of genius among our citizens: hence we frequently meet with men who have exercifed two or three different occupations or professions in the course of their lives, according to the influence which interest, accident, or local circumstances have had upon them. I know that the peculiarities, which have been mentioned in the American character, strike an European, who has been accustomed to consider man as a creature of habit, formed by long established governments, and hereditary customs, as fo many deviations from propriety and order. But a wife man, who knows that national characters arise from circumstances, will view these peculiarities without surprise, and attribute them wholly to the prefent state of manners, fociety, and government in America.

From the numerous competitions in every branch of bulinefs in Europe, facesfs in any purfuit, may be

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looked upon in the fame light as a prize in a lottery. But the cafe is widely different in America. Here there is room enough for every human talent and virtue to expand and flourish. This is so invariably true, that I believe there is not an instance to be found, of an industrious, frugal prudent European, with sober manners, who has not been successful in business, in this country.

As a further inducement to Europeans to transport themfelves across the Ocean, I am obliged to mention a fact that does little honour to the native American; and that is, in all competitions for bufinefs, where fuccefs depends upon industry, the European is generally preferred. Indeed, fuch is the facility with which property is acquired, that where it does not operate as a stimulus to promote ambition, it is sometimes accompanied by a relaxation of industry in proportion to the number of years or generations which interpofe between the founder of an American family and his pofterity. This preference of European mechanics arifes, likewise, from the improvements in the different arts, which are from time to time imported by them into our country. To these facts I am happy in being able to add, that the years of anarchy, which proved fo difgusting to the Europeans who arrived among us immediately after the peace, are now at an end, and that the United States have at last adopted a national government which unites with the vigour of monarchy and the flability of ariftocracy, all the freedom of

a fimple republic. Its influence already in invigorating indultry, and reviving credit, is universal. There are several peculiarities in this government, which cannot fail of being agreeable to Europeans, who are disposed to settle in America.

1. The equal fhare of power it holds forth to men of every religious feet. As the first fruits of this perfection in our government, we already see three gentlemen of the Roman Catholic church, members of the legislature of the United States.

2. Birth in America is not required for holdingeither power or office in the federal government, except that of Prefident of the United States. In confequence of this principle of juffice, not only in the national government, but in all our ftate conftitutions, we daily fee the natives of Britain, Ireland, Germany, advanced to the most respectable employments in our country.

3. By a late act of congress, only two years residence in the United States are necessary to entitle foreigners of good character to all the priviliges of citizenschip. Even that short period of time has been found sufficient to give strangers a visible interest in the stability and freedom of our governments. *

It is agreeable to obferve the influence which our republican governments have already had upon the

[&]quot; By a law passed fince the above, five ye rs refidence are necessary recentitle a ducign r to citizenship.

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tempers and manners of our citizene. Amusement is every where giving way to bufinefs: and local politeness is yielding to universal civility. We differ about forms and modes in politics : but this difference begins to fubmit to the reftraints of moral and focial obligation. Order and tranquility appear to be the natural confequence of a well-balanced republic : for where men can remove the evils of their governments by frequent elections, they will feldom appeal to the lefs certain remedies of mobs or arms. It is with fingular pleafure that I can add further, that notwithstanding the virulence of our diffensions about independence and the federal government, there is now fcarcely a citizen of the United States, who is not fatisfied with both, and who does not believe this country to be in a happier and fafer fituation, than it was, in the most flourithing years of its dependence upon Great Britain.

The encouragment held out to European emigrants is not the fame in all the flates. New England, New York, and New Jerfey, being nearly filled with cultivators of the earth, afford encouragement chiefly to mechanicks and labourers. The inhabitants of New England have far furpafied the inhabitants of the other flates, in the eftablishment of numerous and prefitable manufactories. Thefe wonderful people different the fame degrees of indultry in cultivating the arts of peace, that they did of enferprize and perfeverance, in the late war. They already export large quantities of wrought iron, hats, women's fhoes, cheefe, and linen and woolen cloth. The ftate of New-York has likewife diffeovered a laudable fpirit for manufacturers and domeftic improvements. European artifles, therefore, cannot fail of meeting with encouragement in each of the above ftates.

Penul Jvania affords an equal afylum to all the deferiptions of people that have been mentioned, under the fecond head of this letter. Agriculture, manufactures, and many of the liberal arts feem to vie with each other for pre-eminence in this state. Each of them is under the patronage of numerous and respectable focieties. No flate in the union affords greater refources for thip building, malt liquors, maple iugar, fail cloth, iron work, woolen and linen cloths, potash, and glass. Coal, likewise, abounds on the shores of the Sufquehanna, a large river which runs through half the flate. The variety of fects and nations, which compofe the inhabitants of this state, has hitherto prevented our having any fleady traits in our character. We possels the virtues and weakness of most of the feds and nations of Europe. But this variety has produced fuch a collision in opinions and interests, as has greatly favoured the progress of genius in every art and feience. We have been accufed of being factious by our filter flates. This must be ascribed chiefly to our late flate conflitution, which was established by violence in the beginning of the late war, and which was never affented to by a majority of the people.

But that majority have at length afferted their power. A convention, composed of an equal representation of the people, has met and formed a new conflictation, which comprehends in it every principle of liberty and just government. From the excellency of this conflictation—from the harmony it has referred to our citizens —from the central fituation of our flate—from the number and courfes of our rivers—from the facility with which we are able to draw the refources of the lakes to the Delaware—from the vealth of our capital—and above all, from the industry and fober habits of our citizens—there can be no doubt that Pennfylvania will always maintain the first rank, for national profperity and happinefs, in the United States.

There is one circumftance, peculiar in a great degree to Penfylvania, which cannot fail of directing the eyes of the inhabitants of feveral of the European nations to this flate—and that ic, the natives of Britain, Ireland, Germany, France, Switzerland, and Holland, may here meet with their former fellow fubjects, and receive from them that welcome and affiltance, which are the natural confequences of the tie of country. So ftrongly does this principle operate in America, that the natives of Germany and Ireland have formed themfelves into focieties in the city of Philadelphia, for the exprefs purpofe of protecting, advilag, and affilting their countryMIGRATING TO THE UNITED STATES. 207

men, as foon as they fet their feet upon the shores of Pennfylvania.

It has been faid, that the lands in Pennsylvania are dearer than in some of our sister states. They sell, it is true, for a greater nominal fum, than the lands of the neighbouring flates: but in the end, they are much cheaper. The fuil is deep, rich, and durable, and from the fuperior industry and skill of our farmers, our lands are more productive than those of our neighbours; hence their higher price; for the price of lands is always in a ratio to their quality, produce and situation: hence likewise, we are able to tell the value of a farm in any part of the state, by first finding out the quantity of grain an acre will produce, and the price of this grain at the nearest mill or store, making some little allowance for the improvements which are connected with the farm. This remark is fo univerfally true, that a farmer never mistakes the application of it in purchasing land. There is a certain instinct, which governs in all purchases and fales of farms, and which arises out of the principle I have mentioned : it is in general as accurate, as if it arole out of the nicest calculation. It is from an ignorance or neglect of this principle, that fo many of our citizens have migrated to Kentucky, under a delusive expectation of purchasing lands cheaper than in the old flates. They are in fact often much dearer when you estimate their price by the profit of the grain which is cultivated upon them. For inftance, an acre

of land in Kentucky, which fells for a quarter of a guinea, and yields 30 bulhels of corn, at four pence florling per bushel, is dearer than land of the fame quality in Peanfylvania, at a guinea per acre, that yields the fame quantity of corn, which can be fold at the nearest mill or store for two shillings sterl. per builtel. To cure this pailion for migrating to the waters of the Ohio, there is but one remedy, and that is, to open the navigation of the Millillippi. This, by raifing the price of produce, will raife the value of land to high, as to destroy the balance of attraction to that country. This truth is at prefent a speculalative one, but I hope it will be reduced to practice before the waters of the Ohio and Miffifippi have been dyed with the blood of two or three hundred thousand men.

The flates to the fouthward of Peunfylvania poffefs immenfe refources for political happinefs: but while they tolerate negro flavery, they can never be an agreeable retreat for an European. This objection applies chiefly to the fea coafts of those flates; for in the weftern parts of them, the land is cultivated chiefly by freemen. The foil and climate of the extensive weftern country of those flates is kind and mild to a very great degree. There Europeans may profper and be happy.

Thus, Sir, have I complied in a few words with your requeft. In communicating many of the facts contained in this letter, I have not confidered you

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fimply as a citizen of London, or a fubject of the crown of Britain. The whole family of mankind, I know are your brethren; and if men be happy I am fure it is a matter of indifference to you, whether they enjoy their happines on this fide, or on the other fide of the Atlantic ocean.

From a review of the facts that have been mentioned, you will perceive that the prefent is the age of reason and action in America. To our posterity we must bequeath the cultivation of the fine arts and the pleasures of taste and sentiment. The foreigners who have vifited and defcribed our country without making allowances for those peculiarities which arife from our present state of society, have done as little honour to their understandings, as they have done to human nature. Nor have those Europeans discovered more wisdom, who have blended with the American character, the accidental diforders, which were the offspring of our late public commotions. They refembled the fwelling of the fea, which fucceeds a ftorm. At prefent, they have as perfectly fubfided as the diforders produced by the civil wars in England, in the laft century.

It is fomewhat remarkable that in every age, great inventions and great revolutions in human affairs have taken place in a quick fuccession to each other. The many curious machines for lessening labour, which

have lately been difcovered in Europe, will neceffarily throw many thousand artificers out of employment. Perhaps the late fuccessful application of the powers of fire and water to mechanical purposes in your country, was delayed until the present time, only that the fanctuary of our national government might be perfectly prepared to receive and protect those industrious bodies of people, who formerly lived by the labour of their hands, and who might otherwife become a burden to the countries in which they had been deprived of the means of fupporting themfelves. Perhaps, too, the revolutions, which are now going forward in leveral of the governments on the continent of Europe, have occurred at the present juncture for a purpose equally wife and benevolent. The first effect of the establishment of freedom in those countries, will be to promote population, by reducing taxes, disbanding standing armies, and abolishing the vows and practices of celibacy: for I take it for granted that military inftitutions in the time of peace, and monafteries of all kinds, mut yield to the prefent force and cultivated state of human reason, in those countries, which are now the theatres of revolutions in favour of liberty. This increase of population will require an increase of territory, which must be fought for in the United States : for it is not probable that men who have once tafted of the fweets of liberty' will ever think of transporting themselves to any other This outlet for supernumerary inhabitants country.

from the nations of Europe, will eventually promote their interests and prosperity: for when a country is fo much crouded with people, that the price of the means of subsistence is beyond the ratio of their industry, marriages are restrained: but when emigration to a certain degree takes place, the balance between the means of subsistence and industry is restored, and population thereby revived. Of the truth of this principle there are many proofs in the old counties of all the American states. Population has constantly been advanced in them by the migration of their inhabitants to new or distant states.

In fpite of all the little fystems of narrow politicians, it is an eternal truth, that universal happines is universal interest. The divine government of our world would admit of a controversy, if men, by acquiring moral or political happines, in one part, added to the sifery of the inhabitants of another part, of our globe.

I shall conclude this long letter by the two following remarks:

I. If freedom, joined with the facility of acquiring the means of fubfiftence, have fuch an influence upon population—and if exiftence be a title to happinefs then think, fir, what an ocean of additional happinefs will be created, by the influence which migration to the free and extensive territories of the United States will have, upon the numbers of mankind.

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II. If wars have been promoted in all ages and countries, by an over proportion of inhabitants to the means of eafy fublistence, then think, fir, what an influence upon the means of fupporting human life, migration to America, and the immense increase of the productions of the earth, by the late improvements in agriculture, will probably have, in lestening the temptations and resources of nations to carry on war. The promises of heaven are often accomplished by means in which there is no departure from the common operations of nature. If the events, which have been alluded to, should contribute in any degree to put an end to wars, it will farnish a noble triumph to your fociety +, by Mewing: how much enlightened policy, and national happiness, are connected with the dictates of christianity; is the second second

I am,

Dear fir,

With great refpect,

And fincere regard,

Yours very affectionately,

Philadelphia, April 16. 1790.

† The gentleman to whom this letter is addressed, is of the fociety of the people called quakers. AN ACCOUNT OF THE PROGRESS OF POPULATION, AGRICULTURE, MANNERS, AND GOVERNMENT IN PENNSYLVANIA, IN & LETTER TO A FRIEND IN ENGLAND.

DEAR SIR,

WHATEVER tends to unfold falls in the hiftory of the human species, must be interesting to a curious enquirer.—The manner of fettling a new country, exhibits a view of the human mind so foreign to the views of it which have been taken for many centuries in Europe, that I flatter myself the following account of the progress of population, agriculture, manners, and government in Pennsylvania will be acceptable to you. I have chosen to confine myself in the present letter to Pennsylvania only, that all the information I shall give you may be derived from my own knowledge and observations.

The *first* fettler in the woods is generally a man who has outlived his credit or fortune in the cultivated parts of the State. His time for migrating is in the month of April. His first object is to build a fmall cabbin of rough logs for himfelf and family. The floor of this cabbin is of earth, the roof is of fplit logs—the light is received through the docr, and, in

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some instances, through a small window made of greafed paper. A coarfer building adjoining this cabbin affords a shelter to a cow and a pair of poor horses. The labor of erecting these buildings is fucceeded by killing the trees on a few acres of ground near his cabbin; this is done by cutting a circle round the trees, two or three feet from the ground. The ground around these trees is then ploughed and Indian-corn planted in it. The feafon for planting this grain is about the 20th of May-It grows generally on new ground with but little cultivation, and yields in the month of October following, from forty to fifty bushels by the acre. After the first of September it affords a good deal of nourishment to his family, in its green or unripe state, in the form of what is called roafting cars. His family is fed during the furnmer by a fmall quantity of grain which he carries with him, and by fifh and game. His cows and horfes feed upon wild grafs, or the fucculent twigs of the woods. For the first year he endures a great deal of diftress from hunger-coldand a variety of accidental causes, but he feldom complains or finks under them. As he lives in the neighbourhood of Indians, he soon acquires a strong tincture of their manners. His exertions, while they continue, are violent; but they are fucceeded by long intervals of reft. His pleasures confist chiefly in fishing and hunting. He loves spirituous liquors, and he cate, drinks and fleeps in dirt and rags in his little cabbin. In his intercourse with the world

he manifests all the arts which characterize the Indians of our country. In this fituation he paffes two or three years. In proportion as population increases' around him, he becomes uneasy and diffatisfi-Formerly his cattle ranged at large, but now ed. his neighbours call upon him to confine them within fences, to prevent their trespassing upon their fields of grain. Formerly he fed his family with wild animals, but these, which fly from the face of man, now cease to afford him an easy subsistence, and he is compelled to raife domestic animals for the fupport of his family. Above all, he revolts against the operation of laws. He cannot bear to furrender up a fingle natural right for all the benefits of government,-and therefore he abandons his little fettlement, and feeks a retreat in the woods, where he again fubmits to all the toils which have been mentioned. There are inftances of many men who have broken ground on bare creation, not lefs than four different times in this way, in different and more advanced parts of the State. It has been remarked, that the flight of this class of people is always increafed by the preaching of the gofpel. This will not surprise us when we consider how opposite its precepts are to their licentious manner of living. If our first settler was the owner of the spot of land which he began to cultivate, he fells it at a confiderable profit to his fuccessor; but if (as is oftner the case) he was a tenant to some rich landholder,

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he abandons it in debt; however, the fmall improvements he leaves behind him, generally make it an object of immediate demand to a *fecond* species of fettler.

This species of settler is generally a man of some property,-he pays one third or one fourth part in cash for his plantation, which consists of three or four hundred acres, and the reft in gales or inftalments, as it is called here; that is, a certain fum yearly, without interest, 'till the whole is paid. The first object of this settler is to build an addition to his cabbin; this is done with hewed logs: and as faw-mills generally follow fettlements, his floors are made of boards; his roof is made of what are called clapboards, which are a kind of coarfe fningles, fplit out of thort oak logs. This houfe is divided by two floors, on each of which are two rooms : under the whole is a cellar walled with flone. The cabbin ferves as kitchen to this houfe. His next object is to clear a little meadow ground, and plant an orchard of two or three hundred apple trees. His stable is likewife enlarged; and, in the course of a year or two, he builds a large log barn, the roof of which is commonly thatched with rye ftraw : he moreover encreases the quantity of his arable land; and, inflead of cultivating Indian corn alone, he raifes a quantity of wheat and rye: the latter is cultivated chiefly for the purpole of being distilled into whitkey. This fpc-

cies of fettler by no means extracts all from the earth, which it is capable of giving. His fields yield but a fcanty increase, owing to the ground not being fufficiently ploughed. The hopes of the year are often blasted by his cattle breaking through his half made fences, and , destroying his grain. His horses perform but half the Libor that might be expected from them, if they were better fed ; and his cattle often die in the fpring from the want of provision, and the delay of grafs. His house, as well as his farm, bear many marks of a weak tone of mind. His windows are unglazed, or, if they have had glass in them, the ruins of it are supplied with old hats or pillows. This fpecies of fettler is feldom a good member of civil or religious fociety: with a large portion of a hereditary mechanical kind of religion, he neglects to contribute fufficiently towards building a church, or maintaining a regular administration of the ordinances of the gospel: he is equally indisposed to support civil government: with high ideas of liberty, he refuses to bear his proportion of the debt contracted by its eftablishment in our country : he delights chiefly in company-fometimes drinks spirituous liquors to excesswill spend a day or two in every week, in attending political meetings; and, thus, he contracts debts which, (if he cannot discharge in a depreciated paper currency) compel him to fell his plantation, generally in the course of a few years, to the third and last species of fettier.

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This species of settler is commonly a man of property and good character-fometimes he is the fon of a wealthy farmer in one of the interior and ancient counties of the state. His first object is to convert every spot of ground, over which he is able to draw water, into meadow : where this cannot be done, he felects the most fertile spots on the farm, and devotes it by manure to that purpose. His next object is to build a barn, which he prefers of stone. This building is, in some instances, 100 feet in front, and 40 in depth: it is made very compact, fo as to fhut out the cold in winter; for our farmers find that their horfes and cattle, when kept warm, do not require near as much food, as when they are exposed to the cold. He uses æconomy, likewise, in the consumption of his wood. Hence he keeps himfelf warm in winter, by means of stoves, which fave an immense deal of labour to himfelf and his horfes, in cutting and hawling wood in cold and wet weather. His fences are every where repaired, fo as to fecure his grain from his own and his neighbour's cattle. But further, he increases the number of the articles of his cultivation, and, instead of raising corn, wheat and and rye alone, he raises oats, buckwheat, (the fagopyrum of Linnæus) and spelts. Near his house, he allots an acre or two of ground for a garden, in which he raises a large quantity of cabbage and potatoes. His, newly cleared fields, afford him every year a large increase of turnips. Over the spring which supplies

him with water, he builds a milk-house and over this, in some instances, he builds a smoke house ; he likewise adds to the number, and improves the quality of his fruit trees :--His fons work by his fide all the year and his wife and daughters for fake the dairy and the spinning wheel, to share with him in the toils of harvest-The last object of his industry is to build a dwelling house. This bufiness is fometimes effected in the course of his life, but is oftener bequeathed to his fon, or the inheritor of his plantation : and hence we have a common faying among our best farmers, " that " a fon should always begin where his father left off;" that is, he should begin his improvements, by building a commodious dwelling-house, fuited to the improvements and value of the plantation. This dwelling-house is generally built of stone-it is large, convenient, and filled with useful and substantial furniture-It fometimes adjoins the house of the fecond settler, but is frequently placed at a little distance from it. The horses and cattle of this species of settler, bear marks in their strength, fat and fruitfulness-of their being plentifully fed and carefully kept. His table abounds with a variety of the best provisions-his very kitchen flows with milk and honey-beer, cyder, and home made wine are the usual drinks of his family : the greatest part of the cloathing of his family is manufactured by his wife and daughters: in proportion as he encreases in wealth, he values the protection of laws; hence

he punctually pays his taxes towards the fupport of government. Schools and churches likewife, as the means of promoting order and happinels in fociety, derive a due support from him: for benevolence ard public spirit. as to tacke objects, are the natural offfpring of affluence and independence. Of this clafs of fettlers are two-thirds of the farmers of Pennfylvania. These are the men to whom Pennsylvania owes her ancient fame and confequence. If they possels less refinement than their fouthern neighbours, who cultivate their land with flaves, they posses more republican virtue. It was from the farms cultivated by thefe men, that the American and French armies were chiefly fed with bread during the late revolution ; and it was from the produce of these farms, that those millions of dollars were obtained from the Havanna after the year 1780, which laid the foundation of the bank of North America, and which fed and cloathed the American army, till the peace of Paris.——This is a fhort account of the happiness of a Pennsylvania farmer,-To this happiness our state invites men of every religion and country.

We do not pretend to offer emigrants the pleafures of Arcadia—It is enough if affluence, independence, and happinefs are enfured to patience, industry, and labour. The moderate price of land,* the credit which

* The unoccupied lands are fold by the flate for about fix guineas inclusive of all charges, per hundred acres. But as most of the lands that are fettled, are produced from perforts who had purelated them f on the flate, they are fold to the fush fettler for a nucle higher price. The POPULATION, &C. IN PENNSYLVANIA. 221

arifes from prudence, and the fafety from our courts of law, of every fpecies of property, render the bleffings which I have defcribed, objects within the reach of every man.

From a review of the three different fpecies of fettlers, it appears, that there are certain regular ftages which mark the progress from the favage to civilized life. The first fettler is nearly related to an Indian in his manners—In the fecond, the Indian manners are more diluted : It is in the third species of fettlers only, that we behold civilization completed—It is to the third species of settlers only, that it is proper to apply the term of *farmers*. While we record the vices of the first and fecond settlers, it is but just to mention their virtues likewise.—Their mutual wants produce mutual dependance : hence they are kind and

quality of the foil—its vicinity to mills, court-houfes, places of worfnip, and navigable water: the diffance of land-carriage to the fca-ports of Philadelphia or Baltimore, and the nature of the roads, all influence the price of land to the first fettler. The quantity of cleared land, and the nature of the improvements, added to all the above circumflances, influence the price of farms to the fecond and third fettlers. Hence the price of land to the first fettlers is from a quarter of a guinea to two guineat per acre; and the price of farms is from one guinea to ten guineas per acre, to the fecond and third fettlers, according as the land in varied by the before-mentioned circumflances. When the first fettler is unable to purchafe, he often takes a track of land for feven years on a leafe, and contracts inftend of paying a rent in cafh, to clear 50 acres of land, to build a log cabbin, and a barn, and to plant an orchard on it. This track, after the expiration of this leafe, fells or rents for a confiderable profit.

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friendly to each other—their folitary fituation makes vifitors agreeable to them ;—hence they are hofpitable to ftrangers: their want of money, (for they raife but little more than is neceffary to fupport their families) has made it neceffary for them to affociate for the purpofes of building houfes, cutting their grain, and the like :—This they do in turns for each other, without any other pay than the pleafures which ufually attend a country frolic—Perhaps what I have called virtues are rather qualities, arifing from neceffity, and the peculiar ftate of fociety in which thefe people live.—Virtue fhould, in all cafes, be the offspring of principle.

I do not pretend to fay, that this mode of fettling farms in Pennfylvania is universal—I have known fome inftances where the first fettler has performed the improvements of the second, and yielded to the I have known a few inftances likewife, of men third. of enterprizing fpirits, who have fettled in the wilderness, and who, in the course of a single life, have advanced through all the intermediate stages of improvement that I have mentioned and produced all those conveniences which have been ascribed to the third species of settlers; thereby resembling, in their exploits, not only the pioneers and light-infantry, but the main body of an army. There are inftances likewife, where the first settlement has been improved by the fame family, in hereditary fuccession, 'till it has reached the third stage of cultivation. There are many spacious stone houses and highly cultivated

farms in the neighbouring counties of the city of Philadelphia, which are poffeffed by the grandfons and great-grandfons of men who accompanied William Penn acrofs the ocean, and who laid the foundation of the preferit improvements of their pofterity, in fuch cabbins as have been defcribed.

This passion for migration which I have described, will appear strange to an European. To see men turn their backs upon the houses in which they drew their first breath-upon the church in which they were dedicated to God-upon the graves of their ancestors-upon the friends and companions of their youth—and upon all the pleasures of cultivated fociety, and exposing themselves to all the hardships and accidents of subduing the earth, and thereby establishing settlements in a wilderness, must strike a philosopher on your side the water, as a picture of human nature that runs counter to the usual habits and principles of action in man. But this passion, strange and new as it appears, is wifely calculated for the extention of population in America: and this it does, not only by promoting the increase of the human species in new settlements, but in the old fettlements likewise. While the degrees of industry and knowledge in agriculture, in our country, are proportioned to farms of from 75 to 300 acres, there will be a languor in population, as soon as farmers multiply beyond the number of farms of the

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above dimensions. To remove this languor, which is kept up alike by the increase of the price, and the division of farms, a migration of part of the community becomes absolutely necessary. And as this part of the community often consists of the idle and extravagant, who eat without working, their removal, by increasing the facility of sublissence to the frugal and industrious who remain behind, naturally increases the number of people, just as the cutcing off the fuckers of an apple-tree increases the fize of the tree, and the quantity of fruit.

I have only to add upon this fubject, that the migrants from Pennfylvania always travel to the fouthward. The foil and climate of the western parts of Virginia, North and South-Carolina, and Georgia, afford a more eafy support to lazy farmers, than the stubborn but durable soil of Pennsylvania.-Here, our ground requires deep and repeated plowing to conder it fruitful-there, feratching the ground once or twice affords tolerable crops. In Pennfylvania, the length and coldness of the winter make it necessary for the farmers to beftow a large fhare of their labour in providing for and feeding their cattle; but in the fouthern states, cattle find pasture during the greatest part of the winter, in the fields or woods. For these reasons, the greatest part of the western counties of the States, that have been mentioned, are fettled by original inhabitants of Pennfylvania. During the late war, the

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militia of Orange county, in North Carolina, were curolled, and their number amounted to 3,500, every man of whom had migrated from Pennfylvania. From this you will fee, that our State is the great outport of the United States for Europeans; and that, after performing the office of a fieve by detaining all those people who posses the states of industry and virtue, it allows a passage to the rest, to those States which are accommodated to their habits of indolence.

I shall conclude this letter by remarking, that in the mode of extending population and agriculture, which I have deferibed, we behold a new species of war. The third settler may be viewed as a conqueror. The weapons with which he atchieves his conquests, are the implements of husbandry: and the virtues which direct them, are industry and economy. Idlenessextravagance—and ignorance fly before him. Happy would it be for mankind, if the kings of Europe would adopt this mode of extending their territories: it would foon put an end to the dreadful connection, which has existed in every age, between war and pover:y, and between conquest and defolation.

With great respect,

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I have the honor to be,

SIR,

Your most obedient humble servant.

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[AN ACCOUNT OF THE MANNERS OF THE GERMAN INHABITANTS OF PENNSYLVANIA.

THE state of Pennfylvania is so much indebted for her prosperity and reputation, to the German part of her citizens, that a short account of their manners may, perhaps, be useful and agreeable to their fellow citizens in every part of the United States.

The aged Germans, and the anceftors of those who are young, migrated chiefly from the Palatinate; from Alcace, Swabis, Saxony, and Switzerland: but natives of every principality and dukedom, in Germany, are to be found in different parts of the ftate. They brought but little property with them. A few pieces of gold or filver coin, a cheft filled with clothes, a bible, and a prayer or an hymn book conflituted the whole ftock of most of them. Many of them bound themselves, or one or more of their children, to masters after their arrival, for four, five, or feven years, in order to pay for their passages across the ocean. A clergyman always accompanied them when they came in large bodies.

The principal part of them were farmers; but there were many mechanics. who brought with them a knowledge of those arts which are neces-

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fary and useful in all countries. These mechanics were chiefly weavers, taylors, tanners, shoemakers, comb-makers, smiths of all kinds, butchers, papermakers, watch makers, and sugar bakers. I shall begin this account of the German inhabitants of Pennsylvania, by describing the manners of the German farmers

This body of citizens are not only industrious and frugal, but skilful cultivators of the earth. I shall enumerate a few particulars, in which they differ from most of the other farmers of Pennsylvania.

If. In fettling a track of land, they always provide large and fuitable accomodations for their horfes and cattle, before they lay out much money in building a houfe for themfelves. The barn and the ftables are generally under one roof, and contrived in fuch a manner as to enable them to feed their horfes and cattle, and to remove their dung, with as little trouble as possible. The first dwelling house upon this farm is small, and built of logs. It generally lasts the life time of the first fettler of a track of land; and hence they have a faying, that "a " fon should always begin his improvements where " his father left off,"—that is, by building a large and convenient store house.

2d. They always prefer good land or that land on which there is a large quantity of meadow ground.

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From an attention to the cultivation of grafs, they often double the value of an old farm in a few years, and grow rich on farms, on which their predeccilors of whom they purchased them, have nearly starved. They prefer purchasing farms with some improvements to settling on a new track of land.

3d. In clearing new land, they do not girdle the trees fimply, and leave them to perifh in the ground, as is the cuftom of their English or Irish neighbours; but they generally cut them down and burn them. In deftroying under-wood and bushes, they generally grub them out of the ground; by which means a field is as fit for cultivation the fecond year after it is cleared, as it is in twenty years afterwards. The advantages of this mode of clearing, confift in the immediate product of the field, and in the greater facility with which it is ploughed, harrowed and reaped. The expense of repairing a plough, which is often broken two or three times in a year by fmall flumps concealed in the ground, is often greater than the extraordinary expense of grubbing the fame field completely, in clearing it.

4th. They feed their horfes and cows, of which they keep only a fmall number, in fuch a manner, that the former perform twice the labour of those horfes, and the latter yield twice the quantity of milk of those cows, that are less plentifully fed. There is great accomony in this practice, especially in a country where fo much of the labour of 2 farmer is neceffary to fupport his domeftic animals. A German horfe is known in every part of the flate: indeed he feems to " feel with his " lord, the pleafure and the pride" of his extraordinary fize or fat.

5th. The fences of a German farm are generally high, and well built; fo that his fields feldom fuffer from the inroads of his own or his neighbours, horfes, cattle, hogs, or theep.

6th. The German farmers are great occonomits of their wood. Hence they burn it only in floves, in which they confume but a 4th. or 5th. part of what is commonly burnt in ordinary open fire places: belides, their horfes are faved by means of this œconomy, from that immense labour, in hauling wood in the middle of winter, which frequently unfits the horfes of their neighbours for the toils of the enfuing fpring. Their houses are, moreover, rendered so comfortable, at all times, by large close floves, that twice the business is done by every branch of the family, in kniting, fpinning, and mending farming utenfils, that is done in houses where every member of the family crouds near to a common fire-place, or fhivers at a distance from it,-with hands and fingers that move, by reason of the cold, with only half their usual quickncss.

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They difcover æconomy in the prefervation and increafe of their wood in feveral other ways. They fometimes defend it, by high fences, from their cattle; by which means the young foreft trees are fuffered to grow, to replace those that are cut down for the neceffary use of the farm. But where this cannot be conveniently done, they furround the flump of that tree which is most useful for fences, viz. the chefnut, with a fmall triangular fence. From this flump a number of fuckers shoot out in a few years, two or three of which in the course of five and twenty years, grow into trees of the fame fize as the tree from whose roots they derived their origin.

7th. They keep their horfes and cattle as warm as possible in winter, by which means they fave a great deal of their hay and grain; for those animals when cold, eat much more than when they are in a more comfortable situation.

8th. The German farmers live frugally in their families, with refpect to diet, furniture and apparel. They fell their most profitable grain, which is wheat; and eat that which is less profitable, but more nourishing, that is rye or Indian corn. The profit to a farmer, from this fingle article of œconomy, is equal, in the course of a life time, to the price of a farm for one of his children. They eat sparingly of boiled animal food, with large quantities of vegetables, particularly fallad, turnips, onions, and cabbage,

the last of which they make into four crout. They likewife use a large quantity of milk and cheese in their diet. Perhaps the Germans do not proportion the quantity of their animal food, to the degrees of their labour; hence it has been thought, by some people, that they decline in ftrength fooner than their English or Irish neighbours. Very few of them ever use distilled spirits in their families: their common drinks are cyder, beer, wine, and fimple water. The furniture of their house is plain and useful. They cover themseves in winter with light feather beds instead of blankets: in this contrivance there is both convenience, and œconomy, for the beds are warmer than blankets, and they are made by themfelves. The apparel of the German farmers is ufually bome spun. When they use European articles of drefs, they prefer those which are of the best quality, and of the highest price. They are afraid of debt, and feldom purchase any thing without paying cash for it.

9th. The German farmers have large or profitable gardens near their houses. These contain little else but useful vegetables. Pennsylvania is indebted to the Germans for the principal part of her knowledge in horticulture. There was a time when turnips and cabbage were the principal vegetables that were aled in diet by the citizens of Philadelphia. This will not surprise those perfons, who know that the first English fettlers in Pennsylvania left England while horticulture was in 232 AN ACCOUNT OF THE GERMAN

its infancy in that country. It was not till the reign of William III. that this whiful and agreeable art was cultivated by the English nation. Since the fettlement of a number of German gardeners in the neighbourhood of Philadelphia, the tables of all classes of citizens have been covered with a variety of vegetables, in every feason of the year; and to the use of these vegetables, in diet, may be afcribed the general exemption of the citizens of Philadelphia from difeases of the skin.

toth. The Germans feldom *bire* men to work upon their farms. The feeblenefs of that authority which mafters poffefses over hired fervants, is fuch that their wages are feldom procured from their labour, except in harveft, when they work in the prefence of their mafters. The wives and daughters of the German farmers frequently forfake, for a while, their dairy and fpinning-wheel, and join their hufbands and brothers in the labour of cutting down, collecting and bringing home the fruits of their fields and orchards The work of the gardens is generally done by the women of the family.

11th. A large and strong waggon covered with linen cloth, is an effential part of the furniture of a German farm. In this waggon, drawn by four or five large horses of a peculiar breed: they convey to market over the roughest roads, between 2 or 3 thoufand pounds weight of the produce of their farms. In the months of September and October, it is no uncommon thing, on the Lancaster and Reading roads, to meet in one day from fifty to an hundred of these waggons, on their way to Philadelphia, most of which belong to German farmers.

12th. The favourable influence of agriculture, as conducted by the Germans in extending human happiness, is manifested by the joy they express upon the birth of a child. No dread of poverty, nor distrust of Providence from an encreasing family, depress the spirits of these industrious and frugal people. Upon the birth of a fon, they exult in the gift of a ploughman or a waggoner; and upon the birth of a daughter, they rejoice in the addition of another spinster, or milkmaid to their family. Happy state of human society ! what bleffings can civilization confer, that can atone for the extinction of the ancient and patriarchal pleafure of raising up a numerous and healthy family of children, to labour for their parents, for themselves, and for their country; and finally to partake of the knowledge and happinefs which are annexed to existence ! The joy of parents upon the birth of a child is the grateful echo of creating goodnefs. May the mountains of Pennfylvania be for ever vocal, with fongs of joy upon these occasions! They will be the infallible figns of innocence, industry, wealth and happiness in the state.

13th. The Germans take great pains to produce, in their children, not only *habits* of labour, but a *love*

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of it. In this they fubmit to the irreversible fentence inflicted upon man, in such a manner, as to convert the wrath of heaven into private and public happiness. "To fear God, and to love work," are the first lessons they teach their children. They prefer industrious habits to money itself; hence, when a young man asks the confent of his father to marry the girl of his choice, he does not enquire fo much whether she be rich or poor? or whether she possess any personal or mental accomplishments—as whether she be industrious, and acquainted with the duties of a good house-wise?

14th. The Germans fet a great value upon patrimonial property. This useful principle in human nature prevents much folly and vice in young people. It moreover leads to lasting and extensive advantages, in the improvement of a farm; for what inducement can be stronger in a parent to plant an orchard, to preferve forest-trees or to build a commodious and durable house, than the idea, that they will all be possible by a fuccession of generations, who shall inherit his blood and name.

15th. The German farmers are very much influenced in planting and pruning trees, also in fowing and reaping, by the age and appearances of the moon. This attention to the state of the moon has been ascribed to superstition; but if the safets related by Mr. Wilson in his observations upon climates are true, part of their success in agriculture must be ascribed to their being so much influenced by it. INHABITANTS OF PENNSTLVANIA.

toth. From the history that has been given of the German agriculture, it will hardly be neceffary to add that a German farm may be diftinguished from the farms of the other citizens of the state, by the superior size of their barns; the plain, but compact form of their houses; the height of their enclosures; the extent of their orchards; the fertility of their fields; the luxuriance of their meadows, and a general appearance of plenty and neatness in everything that belongs to them.

The German mechanic poffeffes fome of the traits of the character that has been drawn of the German farmer. His first object is to become a freeholder; and hence we find few of them live in rented houses. The highest compliment that can be paid to them on entering their houses is to ask them, " is this house your own." They are industrious, frugal, punctual and just. Since their fettlement in Pennfylvania, many of them have acquired a knowledge of those mechanical arts, which are more immediately necessary ry and useful in a new country; while they continue at the fame time, to carry on the arts they imported from Germany, with vigour and fuccess.

But the genius of the Germans of Pennfylvania, is not confined to agriculture and the mechanical arts. Many of them have acquired great wealth by foreign and domeftic commerce. As merchants they are candid and punctual. The bank of North America has witneffed, from its first institution, their fidelity to all their pecuniary engagements. Ņ

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Thus far have I described the individual character of feveral orders of the German citizens of Pennfylvania. I shall now take notice of some of their manners in a collective capacity. All the different fects among them are particularly attentive to the religious educacation of their children, and to the eftablishment and fupport of the christian religion. For this purpose they fettle as much as possible together-and make the erection of a school house and a place of worship the first object of their care. They commit the education and instruction of their children in a peculiar manner to the ministers and officers of their churches; -hence they grow up with prejudices in favour of public worfhip, and of the obligations of christianity. Such has been the influence of a pious education among the German Lutherans in Pennfylvania, that in the course of nineteen years only one of them has ever been brought to a place of public shame on punishment.

As members of civil government, the Germans are peaceable—and exact in the payment of their taxes. Since they have participated in the power of the ftate, many of them have become fenfible and enlightened in the fcience of legiflation. Pennfylvania has had the fpeaker's chair of her affembly, and the vice-prefident's office of her council, filled with dignity by gentlemen of German families. The fame gentlemen have fince been advanced to feats in the houfe of reprefentatives, under the new conflict of the United States. In the great controverly about the national government, a large majority of the Germans in Pennfylvania decided in favour of its adoption, notwithstanding the most popular arts were used to prejudice them against it.

The Germans are but little addicted to convivial pleasures.

They feldom meet for the simple purpose of eating and drinking in what are justly called " feeding "parties"; but they are not strangers to the virtue of hospitality .- The hungry or benighted traveller, is always fure to find a hearty welcome under their roofs. A gentleman of Irish extraction, who lost his way in travelling through Lancaster county, called late at night at the door of a German farmer. He was kindly received and entertained with the best of every thing the house afforded. The next morning, he offered to pay his hoft for his lodging, and other accommodations: "No" faid the friendly German, in broken English-" I will take nothing « from you. I was once loft, and entertained, as " you have been, at the house of a stranger who " would take no pay from me for his trouble. I " am therefore now only discharging that debt :---" do you pay your debt to me in the fame way ✓ to fomebody elfe."—

They are extremely kind and friendly as neighbours. They often afuft each other by loans of money for

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a flort time, without intereft, when the purchase of a plantation makes a larger fum necessary than is commonly possible by a fingle farmer. To accure their confidence, it is necessary to be punctual. They never lend money a fecond time, to a man who has once disappointed them in paying what he had berrowed agreeably to his promise or obligation. It was remarked, during the late war, that there were very few inflances of any of them discharging a bond, or a debt, with depreciated paper money.

It has been faid, that the Germans are deficient in learning; and that in confequence of their want of more general and extensive education, they are much addicted to superstition, and are frequently imposed upon in the management of their affairs. Many of them have loft valuable eftates by being unacquainted with the common forms of law, in the most simple transactions; and many more of them have loft their lives, by applying to quacks in ficknefs: but this objection to the Germans will foon cease to have any foundation in Pennsylvania. Several young men, born of German parents, have been educated in law, physic and divinity, who have demonstrated by their abilities and knowledge, that the German genius for literature has not depreciated in America. A college has lately been founded by the state in Lancaster, + and committed chiefly to the care

† This college is called after Dr. FRANKLIN, who was prefident
of the flate at the time it was founded, and who contributed very liberally
wits funds.

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of the Germans of all fects, for the purpole of diffufing learning among their children. In this college they are to be taught the German and English languages, and all those branches of literature which are usually taught in the colleges of Europe and America. The principal of this college is a native of Pennfylvania, of German parentage.* His extensive knowledge and taste in the arts and sciences, joined with his industry in the discharge of the duties of his station, have afforded to the friends of learning in Pennfylvania, the most flattering prospects of the future importance and usefulness of this institution,

Both fexes of the Germans difcover a ftrong propenfity to vocal and inftrumental mufic. They excel, in pfalmody, all the other religious focieties in the ftate.

The freedom and toleration of the government *b* produced a variety of fects, among the Germans in Pennfylvania. The Lutherans compose a great proportion of the German citizens of the ftate. Many of their churches are large and fplendid. The German Prefbyterians are the next to them in numbers. Their churches are likewife large and furnished, in many places, with organs. The clergy, belonging to these churches, have moderate falaries, but they are punctually and justly paid. In the country they have glebes which are stocked and occasionally worked by their congregations. The

* The Reverend Dr. Honry Muldenberg.

extra expences of their ministers, in all their excursions to their ecclesiastical meetings, are borne by their refpective congregations. By this means the discipline and general interests of their churches are preferved and promoted. The German Lutherans and Prefbyterians live in great harmony with each other, infomuch that they often preach in each other's churches, and in fome instances unite in building a church, in which they both worship at different times. This harmony between two fects, one fo much opposed to each other, is owing to the relaxation of the Prefbyterians in fome of the peculiar doctrines of Calvanifm. I have called them Presbyterians, because most of them object to being defignated by the name of Calvanifts. The Menonists, the Moravians, the Swingfielders, and the Catholics, compose the other fects of the German inhabitants of Pennfylvania. The Menonists hold war and oaths to be unlawful. They admit the facraments of baptifm, by fprinkling, and the fupper. From them a fect has arisen, who hold, with the above principles and ceremonies, the necessity of immersion baptism; hence they are called Dunkers, or Baptist. Previously to their partaking of the facrament of the fupper, they wash each other's feet, and sit down to a love-feast. They practice these ceremonies of their religion with great humility and folemnity. They, moreover, hold the doctrine of universal falvation. From this sect there have been feveral feeders, one of whom devoted themfelves to perpetual celibacy. They have exhibited

for many years, a curious spectacle of pious mortification, at a village called Ephrata, in Lancaster county They are at prefent reduced to fourteen or fifteen members. The Separatifts who likewife diffented from the Dunkers, reject the ordinances of baptism and the facrament; and hold the doctrine of the Friends, concerning the internal revelation of the gofpel. They hold, with the Dunkers, the doctrine of universal salvation. The fingular piety, and exemplary morality of these fects, have been urged, by the advocates for the falvation of all mankind, as a proof that the belief of that doctrine is not fo unfriendly to morals, and the order of fociety, as has been fuppofed. The Dunkers and Separatists agree in taking no interest upon money, and in not applying to law to recover their debts.

The German Moravians are a numerous and refpectable body of chriftians in Pennfylvania. In their village of Bethlehem, there are two large ftone buildings, in which the different fexes are educated in habits of industry in useful manufactures. The fifters (for by that epithet the women are called) all fleep in two large and near apartments. Two of them watch over the reft, in turns, every night, to afford relief from those fudden indispositions which fometimes occur, in the most healthy perfons, in the hours of fleep. It is impossible to record this fact, without pausing a moment to do homage to that religion, which pro-

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duces fo much union and kindnefs in human fouls. The number of women, who belong to this fequestered female fociety, amounts fometimies to 120, and feldom to lefs than 100. It is remarkable that notwithstanding they lead a fedentary life, and fet constantly in close stove-rooms in winter, that not more than one of them, upon an average, dies in a year. The difease which generally produces this annual death, is the confumption. The conditions and ages of the women of the village, as well as of the fociety that has been mentioned, are distinguished by ribbons of a peculiar kind which they wear on their capa: the widows, by white; the married women, by blue; the fingle women, above 18 years of age, by pink; and those under that age, by a ribbon of a cinnamon colour. Formerly this body of Moravians held all their property in common in imitation of the primitive christians; but, in the year 1760, a division of the whole of it took place, except a tavern, a tan-yard, 2000 acres of land near Bethlehem, and 5000 acres ncar Nazareth, a village in the neigbourhood of Bethlehem. The profits of these estates are appropriated to the support and propagation of the gospel. There are many valuable manufactures carried on at Bethlehem. The inhabitants posses a gentlenes in their manners, which is peculiarly agreeable to ftrangers. They inure their children, of five and fix years old, to habits of carly industry. By this means they are not only taught those kinds of labor which are fuited to

their flrength and capacities, but are preferved from many of the hurtful vices and accidents to which children are exposed.

The Swingfielders are a fmall fociety. They hold the fame principles as the Friends, but they differ from them in using plalmody in their worfhip.

The German Catholics are numerous in Philadelphia, and have feveral fmall chapels in other parts of the state.

There is an incorporated charitable fociety of Germans in Philadelphia, whole objects are their poor and diffreffed countrymen.

There is likewife a German fociety of labourers and journeymen mechanics, who contribute 2s. 6d. cight times a year, towards a fund, out of which they allow 30s. a week to each other's families, when the head of it is unable to work; and 7l. 10s to his widow, as foon as he is taken from his family by death.

The Germans of Pennfylvania, including all the fects that have been mentioned, compose nearly one third part of the whole inhabitants of the state.

The intercourse of the Germans with each other, is kept up chiefly in their own language; but most of their men, who visit the capital, and the trading or country towns of the state, speak the English lan-

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guage. A certain number of the laws of the flate are now printed in German, for the benefit of those of them who cannot read English. A large number of German news-papers are likewise circulated through the state, through which knowledge and intelligence have been conveyed, much to the advantage of the government. There is scarcely an instance of a German, of either fex, in Pennsylvania, that cannot read; but many of the wives and daughters of the German farmers cannot write. The present state of society among them renders this accomplishment of little confequence to their improvement or happines.

If it were possible to determine the amount of all the property brought into Pennfylvania by the prefent German inhabitants of the state, and their ancestors, and then compare it with the prefent amount of their property, the contrast would form such a monument of human *industry* and *acconomy* as has feldom been contemplated in any age or country.

I have been informed that there was an ancient prophecy which foretold, that "God would blefs "the Germans in foreign countries." This prediction has been faithfully verified in Fennfylvania. They enjoy here every bleffing that liberty, toleration, independence, affluence, virtue and reputation, can confer upon them.

How different is their fituation here; from what it was in Germany! Could the fubjects of the prince

of Germany, who now groan away their lives in flavery and unprofitable labour, view from an eminence, in the month of June, the German fettlements of Stratsburg, or Manheim in Lancaster county, or of Lebanon or Bethlehem in the counties of Dauphin and Northampton; could they be accompanied on this eminence, by a venerable German farmer, and be told by him that many of those extensive fields of grain, full-fed herds, luxuriant meadows, orchards, promifing loads of fruit, together with the spacious barns-and commodious stone-dwelling houses, which compose the prospects that have been mentioned, were all the product of the labour of a fingle family, and of *one* generation; and that they were all fecured to the owners of them by certain laws; I am persuaded, that no chains would be able to detain them from fharing in the freedom of their Pennfylvania friends and former fellow-fubjects. " We will affert our dignity-(would be their language) we will be men-we will be free-we will enjoy the fruits of our own labours-we will no longer be bought and fold to fight battles-in which we have neither interest nor refentment-we will inherit a portion of that bleffing which God has promifed to the Germans in foreign countries-we will be Pennfylvanians."

I shall conclude this account of the manners of the German inhabitants of Pennsylvania by remark-

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ing that if I have failed in doing them justice, it has not been the fault of my subject. The German character once employed the pen of one of the first historians of antiquity. I mean the elegant and enlightened Tacitus. It is very remarkable that the Germans in Pennsylvania retain in a great degree all the virtues, which this author afcribes to their ancestors in his treatise " de moribus Germanorum".--They inherit their integrity-fidelity-and chastitybut christianity has banished from them, their drunkenness, idleness, and love of military glory. There is a fingular trait in the features of the German character in Pennfylvania, which shews how long the most triffing customs may exist among a people who have not been mixed with other nations. Tacitus describes the manner in which the ancient Germans build their villages in the following words. « Suam quisque domum spatiis circumdat sive adversus casus ignis remedium, sive inscitia ædificandi." † Many of the German villages in Pennfylvania are constructed in the fame manner. The finall houses are composed of a mixture, of wood, brick and clay, neatly united together. The large houses are built of stone, and many of them after the English fashion. Very few of the houses in Germantown are connected together. -Where the Germans connect their houses in their

J Each man leaves a space between his house, and those of his neighbours, either to avoid the danger from file, or from unfill fulnels in a chitectore.

villages, they appear to have deviated from one of the cuftoms they imported from Germany.

CITIZENS of the United States learn from the account that has been given of the German inhabitants of Pennfylvania, to prize knowlédge and industry in agriculture and manufactures, as the basis of domestic happiness and national prosperity.

LEGISLATORS of the United States, learn from the wealth, and independence of the German inhabitants of Pennfylvania, to encourage by your example, and laws, the republican virtues of industry and economy. They are the only pillars which can support the present constitution of the United States.

LEGISLATORS of Pennfylvania,—learn from the history of your German fellow citizens that you polfefs an inexhaustible treasure in the bosom of the state, in their manners and arts. Continue to patronize their newly established feminary of learning and spare no expense in supporting their public free-schools. The vices which follow the want of religious instruction, among the children of poor people, lay the foundation of most of the jails, and places of public punishment in the state. Do not contend with their prejudices in favour of their language. It will be the channel through which the knowledge and discoveries of one of the wisess nations in Europe, may be conveyed into our coun-

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try. In proportion as they are inftructed and enlightened in their own language, they will become acquainted with the language of the United States. Invite them to fhare in the power and offices of government : it will be the means of producing an union in principle and conduct between them, and those of their enlightened fellow-citizens who are descended from other nations. Above all, cheristh with peculiar tenderness, those fects among them who hold war to be unlawful.—Relieve them from the oppression of absurd and unnecessary militia laws. Protect them as the repositories of a truth of the gospel, which has existed in every age of the church, and which must spread hereaster over every part of the world.

The opinions respecting the commerce and flavery of the Africans, which have nearly produced a revolution in their favour, in some of the European governments, were transplanted from a sect of christians in Pennsylvania. Perhaps those German sects of christians among us, who result to bear arms for the purpose of shedding human blood, may be preferved by divine providence, as the centre of a circle, which shall gradually embrace all the nations of the earth in a perpetual treaty of friendship and peace.

THOUGHTS ON COMMON SENSE.

THE human mind in common with other branches of philosophy, has become the subject of attention in the present age of free and general enquiry. While new faculties are discovering in it, it will conduce equally to our acquiring a perfect knowledge of its powers, to detect and remove such *suppesed* faculties as do not beiong to it.

I have long fulpected the term Common Senfe to be applied improperly to defignate a faculty of the mind. I fhall not repeat the accounts which have been given of it by Cicero—Buffier—Berkely—Shaftefbury —Bentely—Fenelon—Locke—Hume—Hobs—Prieftly and others, all of whom agree in defcribing it as a faculty, or part of a faculty, possefing a quick and universal perception of right and wrong, truth and error, and of propriety and impropriety in human affairs.

I shall copy, as the substance of all that those authors have said upon this subject, Dr. Reid's account of common sense, published in the 2d. chapter of the sixth number of his Essays on the intellectual powers of man.—" It is absurd to conceive (fays the " Doctor) that there can be any opposition be-" tween reason and common sense. It is the first-

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" born of reason, and, as they are commonly joined together in speech and writing, they are inseparable in their nature."

"We afcribe to reafon-two offices or two degrees. "The first is to judge of things felf-evident; the fecond is to draw conclusions that are not felfevident from things that are. The first of these is the province, and the fole province, of common fense, and therefore it coincides with reason in its whole extent, and is only another name for one branch or one degree of reason."

" There is an obvious reafon why this degree of reafon fhould have a name appropriated to it, and that is, that in the greateft part of mankind no other degree of reafon is to be found. It is this degree of reafon that entitles them to the denomination of reafonable creatures."

It is with great diffidence that I object to any thing that comes from a gentleman from whole writings I have derived fo much entertainment and inftruction, and who has done fo much towards removing the rubbish that has for many ages obscured the science of metaphysicks. This diffidence to offer a single obTHOUGHTS ON COMMON SENSE. 251.

jection to Dr. Reid's opinion upon the subject under consideration, is encreased by the groupe of popular and respectable names under which he has supported it.

The idea which I have adopted of common fenfe is plain and fimple. I confider it as the perception of things as they appear to the greateft part of mankind. It has no relation to their being true or falfe, right or wrong, proper or improper. For the fake of perfpicuity, I fhall define it to be, Opinions and feelings in unifon with the opinions and feelings of the bulk of mankind.

From this definition it is evident that common fenfe must necessfarily differ in different ages and countries and, in both, must vary with the progress of taste, fcience, and religion. In the uncultivated state of reason, the opinions and feelings of a majority of mankind will be *wrong*, and, of course, their common or universal sense will partake of their errors. In the cultivated state of reason, *just* opinions and feelings will become general, and the common sense of the majority will be in unifon with truth. I beg leave to illustrate what I mean by a few examples.

1. There are many things which were contrary to common fenfe in former ages, both in philosophy and religion, which are now universally believed, infomuch that to call them in question is to discover a want of judgment, or a defective education. 252 THOUGHTS ON COMMON SENSE.

2. It is contrary to common fenfe to fpeak or write in favour of republicanifm, in feveral European countries; and it is equally contrary to it to fpeak or write in favour of monarchy, in the United States of America.

3. The common fense of the planters in Jamaica, is in favour of the commerce and flavery of the Arricans.—In Pennsylvania, reason, humanity, and common fense, have universally declared against them.

4. In Turkey, it is contrary to the common fenfe of delicacy which prevails in that country for a gentleman to dance with a lady. No fuch common fenfe prevails in any of the weftern countries of Europe, or in the States of America.

5. It is contrary to the common fense of many numerous fects to believe that it is possible for men to go to heaven, who do not embrace their principles, or mode of worship.—Among rational men, this common fense is contrary to truth and christian religion.

6. The common fenfe of mankind has generally been in favour of eftablished modes and habits of practice, in medicine. Opium, bark, mercury and the lancet have all forced their way into general use, contrary to this common fense. Their utility is a proof how little common fense accords with the decifions of reason, and how improperly it is supposed to be a part of that noble power of the mind.

7. It is agreeable to the common fense of a great part of mankind, to revenge public and private injuries by wars and duels, and yet no wife or just reason has ever been given to justify the practice of either of them

8. The common fenfe of the bulk of the inhabitants of the British dominions, and of the United States, is in favour of boys spending four or five years in learning the Latin and Greek languages, in order to qualify them to understand the English language. Those perfores who recollect that the most perfect language in the world, viz. the Greek, was learned without the medium or aid of a dead or foreign language, confider the above practice (founded in common fense) as contrary to right reason and productive of many evils in education. But further, under this head. The common sense of the same immense proportion of people, is in favour of teaching boys words, before they are taught *ideas*. Now nature and right reason both revolt at this absurd practice.

9. The common fense of nearly all nations, is in favour of preventing crimes, by the punishment of death, but right reason, policy, and the experience of a wife and enlightened prince, + all concur in proving

+ Leopold Emperor of Germany.

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that the best means of preventing crimes, is by *living* and not by *dead* examples.

In the perfection of knowledge, common fenfe and truth will be in unifon with each other. It is now more related to error than truth, and in the fenfe in which I have defcribed it, it implies more praife than cenfure to want it.

To fay that a man has common fenfe, is to fay that he thinks with his age or country, in their *falfe*, as well as their *true* opinions; and the greater the proportion of people, he acts and thinks with, the greater fhare he poffetles of this common fenfe.— After all that has been faid in its favour, I cannot help thinking that it is the characteristic only of common minds.

To think and act with the majority of mankind, when they are *sight*, and differently from them, when they are wrong, conftitutes in my opinion, the perfection of human wifdom and conduct.

The *feelings* and *opinions* of mankind are often confounded; but they are widely different from each other. There may be *juft* feelings connected with *erroneous* opinions and conduct. This is often the cafe in religion and government—But, in general, opinions and feelings are juft and unjuft in equal degrees, according to the circumftances of age, country, and the progrefs of knowledge before mentioned. Had this common fenfe depended upon the information of any one of the *five external* fenfes, I fhould have had no difficulty in admitting Dr. Reid's account of it, inafinuch as the perceptions they afford are the *fame*, in their nature, in all healthy men, and in all ages and countries. But to fuppofe it to be an inferior degree, or the *firft* act of reafon, and afterwards to fuppofe it to be *univerfal*, is to contradict every thing that hiftory and obfervation teach us of human nature. $\frac{1}{7}$

In matters addressed to our reason, the principal bufiness of reason is to correct the evidence of our fenses. Indeed, the perception of truth, in philosophy, feems to confift in little elfe than in the refutation of the ideas acquired from the testimony of our In the progrefs of knowledge, when the exfenses. act connection between the fenses and reason is perfectly understood, it is probable that the fenses and reafon will be in unifon with each other, and that mankind will as fuddenly connect the evidence of all the fenfes with the decisions of reason, as they now connect, with certainty, the diftance of objects with the evidence of the eyes. This general unifon between the fenses and reason, as in the case of vision, must be the refult only of experience and habit.

I cannot difmifs this fubject without adding the following remark.

* The king of Prussia, in his posthumous works, fays, "Reasont "never did any thing great," by which he must have meant the commu degrees of it, or what is called, by Dr. Reid, common fense.

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Mankind are governed, fays Mr. Bayle, by their prejudices, and not by their principles. To do them good, we must, in some measure, conform to those prejudices ;-hence we find the most acceptable men in practical fociety, have been those who have never shocked their cotemporaries, by opposing popular or common opinions. Men of opposite characters, like objects placed too near the eye, are seldom seen diftinctly by the age in which they live. They muft content themselves with the prospects of being useful to the diftant and more enlightened generations which are to follow them. Galileo, who aiked pardon of the pope, on his knees, for contradicting the common sense of the church, respecting the revolution of the earth, and Dr. Harvey, who loft 'all his business, by refuting the common fenfe of former ages, refpectting the circulation of the blood, now enjoy a reputation for their opinions and discoveries, which has, in no inftance ever been given to the cold blood of common sense.

April 3d 1791.

An ACCOUNT OF THE VICES PECULIAR TO THE IN-DIAMS OF NORTH AMERICA.

I has become fashionable of late years for the philosophers of Europe to celebrate the virtues of the favages of America.—Whether the design of their encomiums was to expose christianity, and depreciate the advantages of civilization, I know not; but they have evidently had those effects upon the minds of weak people. Without contradicting the accounts that have been published by those gentlemen, of the virtues of the Indians in North America, I shall briefly add an account of some of their vices, in order to complete their natural history. My information shall be taken from the travels of Charlevoix—Hennepen—Carver—Romans and Bartram, and from conversations with persons of veracity who have resided among them.

The first vice I shall name, that is universal among our favages, is UNCLEANNESS. They are, in general, strangers to the obligations both of morality and decency, as far as they relate to the marriage bed.—The exceptions to this remark, have been produced among those nations chiefly, who have had an occasional insercourfe with civilized nations.

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2. NASTINESS is another Indian vice. This is exemplified in their food—drinks—drefs—perfons—and above all, in their total difregard to decency in the time—place—and manner of their natural evacuations.

3. DRUNKENNESS is a more general vice among favages than among civilized nations.—Whole Indian tribes have been deftroyed by it. Indeed they glory in their fondnefs for ftrong liquors, and confider it as a part of their character. A countryman who had dropt from his cart a keg of rum, rode back a few miles in hopes of finding it. On his way he met an Indian who lived in his neighbourhood, whom he afked if he had feen his keg of rum on the road? The Indian laughed in his face, and addreffed him in the following words. "What a fool you are to afk " an Indian fuch a queftion. Don't you fee I am " fober ? Had I met with your keg, you would " have found it empty on one fide of the road, and " Indian Tom drunk and afleep on the other."

4. GLUTTONY is very common among Indians. To this their long abstinence, produced by their idleness, naturally tempts them.—It is very common to see them stretch themselves on the ground after a full meal, and grunt there for several hours till they recover from the effects of their intemperance. Mr. Bartram tells us, that they fometimes rise in the middle of the night, in order to gratify their appetites for eating. PECULIAR TO THE INDIANS. 259

5. TREACHERT is another Indian vice. Who ever trusted to an Indian treaty?—They generally begin their wars, with professions of peace and perpetual friendship.

6. The cruelty of Indians is well known. They confider compassion as a mark of effeminacy. Their treatment of their prisoners, shews them to possels a spirit of revenge, which places them upon a footing with infernal spirits.

7. IDLENESS is the universal vice of favages.--They are not only too lazy to work, but even to think. Nothing but the powerful stimulus of hunger, or revenge, is sufficient to rouse them into action.

8. THEFT is an Indian vice. The Indians not only steal from their civilized neighbours, but from each other. A horse—a gun—or spirits, have charms in the eyes of an Indian that no restraints can prevent his stealing, whenever they come in his way.

9. GAMING belongs in an eminent degree to the Catalogue of Indian vices.

10. But the infamy of the Indian character is completed by the low rank to which they degrade their women. It is well known that their women perform all their work. They not only prepare their victuals, but plant, hoe and gather their corn and roots. They are feldom admitted to their feafts, or share in their conversation. The men oblige them

to lie at their feet, when they fleep without fire; and at their backs when they fleep before a fire. They afford them no affistance in the toils of tending, feeding, and carrying their children. They are even insensible of the dangers to which their women are often exposed in travelling with them. A gentleman from Northumberland county, informed mc, that he once faw a body of Indian men and women wading across the river Susquehannah. The men arrived first on the opposite shore, and pursued their journey along the river. The women, some of whom had children on their backs, upon coming to a deep and rapid current, fuddenly cried out for help, and made figns to their husbands and fathers to come to their affistance. The men flood for a few minutes-and after attentively surveying their distrcfs, bursted out a laughing, and then with a merry indifference, walked from them along the fhore.

This is a flort nomenclature of the vices of the Indians of North America. If it were neceffary, I would quote the chapters and pages of the authors who have established by their observations, the truth of the character I have given of them. I am not disposed to enter into an examination of their virtues, but I cannot help supposing them to be rather the qualities of necessity, than the offspring of feeling, or principle. Their hospitality—their friendships—their patience —and their fidelity to engagements, are the effects of necessity, and are as effential to their existence a

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PECULIAR TO THE INDIANS.

honefty is to a band of affociated robbers. Their politenefs in never contradicting any perfon, I believe is the effect of indolence, for I know of nothing that lazy people diflike more than to difpute, even where truth is on their fide, or where victory is certain.—Where is the man that in a lazy fit (to which all men at times are fubject) has not heard falfe and abfurd opinions advanced in company, without contradicting them ?

The taciturnity of the Indians which has been fo much celebrated, as a mark of their wifdom, is the effect of their want of ideas. Except in cafes of extraordinary pride, I believe taciturnity, in nine cafes out of ten in civilized company, is the effect of ftupidity. I will make one more exception to this rule, and that is in favour of those people who are in the habits of communicating their thoughts, by writing for the public, or by corresponding with their friends. Ideas, whether acquired from books, or by reflection, produce a plethora in the mind, which can only be relieved by depletion from the pen, or tongue.

But what shall we fay to the encomiums that have been lavished upon the love of liberty which characterizes our favage neighbours ?—Why—that they arife from an ignorance of the influence of property, upon the human mind.—Property, and a regard for law, are born together in all focieties. The passion

an account of the vices, &cc.

for liberty in an Indian, is as different from the paffion for it in a civilized republican, as the impurity of luft, is from the delicacy of love There is a certain medium to be obferved between an affection for law, and for liberty. An excefs of the former has fometimes led to tyranny, while an excefs of the latter, leads to idlenefs and vice. The Athenians appear to have been intoxicated with an excefs of liberty when they fpent their whole time in hearing and telling news. There is always an excefs of law or liberty in a community where poor men are idle, or where vices of any kind are fuffered with impunity.

The only reflections that I shall add upon this fubject, shall be,—how great are the blessings of civil government which extirpates, restrains, or punishes the vices that have been mentioned I and how great is the efficacy of christianity, which, by purifying the heart, renders the practice of the contrary virtues natural and agreeable? OBSERVATIONS UPON THE INFLUENCE OF THE HABI-TUAL USE OF TUBACGO UPON HEALTH, MORALS AND PROPERTY.

WERE it pollible for a being who had re-fided upon our globe, to vifit the inhabitants of a planet, where reafon governed, and to tell them that a vile weed was in general ufe among the inhabitants of the globe it had left, which afforded no nourishment-that this weed was cultivated with immense care-that it was an important article of commerce-that the want of it produced real mifery-that its tafte was extremely naufcous, that it was unfriendly to health and morals, and that its use was attended with a confiderable loss of time and property, the account would be thought incredible, and the author of it would probably be excluded from fociety, for relating a ftory of fo improbable a nature. In no one view, is it possible to contemplate the creature man in a more abfurd and ridiculous light, than in his attachment to TOBACCO.

This weed is of a ftimulating nature, whether it be used in smoaking, chewing or in snuff. Like Opium and spirituous liquors, it is sought for in all those cases where the body is debilitated *indirestly* by intemperance in eating, or by excessive application to study, or bulkness, or by excessive passions of the mind, particularly by grief and fear. Perfons after loling relations or friends by death, often refort to it. One of the greateft fnuffers I ever knew, ufed it for the first time, in order to could her under a prefertiment the entertained, that the fnould die in childbed. Fear creates a defire for Tobacco. Hence it is used in a greater quantity by foldiers and failors than by other chaffes of people. It is used most profusely by foldiers when they aft as picket guards, or centinels, and by failors in flormy weather. Perfons Labouring under that flate of madnefs which is accompanied with a fense of midery, are much devoted to it, hence the tenants of mid-houses often accost their attendants and visitors, with petitions for Tobacco.

The progress of habit in the use of Tobacco is exactly the fame as in the use of fpirituous liquors. The flaves of it begin, by using it only after dinner then during the whole afternoon, and evening, afterwards before dinner, then before breakfast, and finally during the whole night. I knew a Lady who had passed through all these stages, who used to wake regularly two or three times every night to compose her fystem with fresh doses of fnuss. Again —the progress in the decay of the fensibility of the ness to the stimulus of fnuss is analogous to the decay of the fensibility of the stomach, to the stimulus of spirituous liquors. It feels for a while the action of Rappee; next it requires Scotch fnuss, afterwards Irish-blackguard—and finally it is affected only by a

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composition of Tobacco and ground glass. This mixture is to the nose, what Cayenne pepper and Jamaica spirits are to the stomachs of habitual dram drinkcrs.

The appetite for Tobacco is wholly artificial. No perfon was ever born with a relifh for it. Even in those perfons who are much attached to it, nature frequently recovers her differ to it. It ceases to be agreeable in every febrile indisposition. This is fo invariably true, that a differ to it is often a fign of an approaching, and a return of the appetite for it, a fign of a departing fever.

In confidering the pernicious effects of Tobacco, I shall begin agreeably to the order I have laid down, by taking notice of its influence upon health; and here I shall mention its effects not only upon the body, but upon the mind.

1. It impairs the appetite. Where it does not produce this effect,

2. It prevents the early and complete digeftion of the food, and thereby induces diftreffing, and incurable difeafes not only of the ftomach, but of the whole body. This effect of Tobacco is the refult of the wafte of the faliva in chewing, and fmoking, or of the Tobacco infinuating itfelf into the ftomach, when ufed in chewing, or fnuffing.————I once loft a young man of 17 years of age, of a pulmonary confumption, whole diforder was brought on by the intemperate use of segars.

3. It produces many of those difeases which are supposed to be seated in the nerves. The late Sir John Pringle was subject in the evening of his life to tremors in his hands. In his last visit to France, a few years before he died, in company with Dr. Franklin, he was requested by the Doctor to observe, that the fame diforder was very common among those people of fashion who were great snuffers. Sir John was led by this remark to suspect that his tremors were occasioned by fnust which he took in large quantities. He immediately left off taking it, and foon afterwards recovered the perfect use of his hands. I have feen head-ache, vertigo, and epilepfy produced by the use of Tobacco. A Physician in Connecticut has remarked that it has in feveral inftances produced palfy and apoplexy, and Dr. Tiffot afcribes sudden death in one instance, to the excessive use of it in fmoking.

4. A citizen of Philadelphia loft all his teeth by drawing the hot fmoke of Tobacco into his mouth by means of fhort pipe, and I have been informed of a cancer on the lip which terminated fatally from the fame caufe, in a farmer in Northumberland county in this flate. The acrid nature of the matter which is mixed with the fmoke of the Tobacco may cafily be difcovered by the tafte or fmell of a pipe flem that has been in ufe for two or three weeks.

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5. Tobacco when used in the form of shuff feldom fails of impairing the voice by obstructing the nose. It moreover imparts to the complexion a disagreeable dusky colour.

I have thus briefly enumerated the morbid effects of Tobacco upon the human body. It remains under this head to mention, that the want of it is a fource of unealinefs more distressing than many bodily diforders. This uneafinefs in perfons who have long been accustomed to the use of Tobacco has in some instances produced an agitation of mind that has bordered upon distraction. Colonel Burr informed me that the greatest complaints of disfatisfaction and fuffering that he heard among the foldiers who accompanied General Arnold in his march from Boston to Quebec through the wilderness in the year 1775, were from the want of Tobacco. This was the more remarkable, as they were fo deftitute of provisions as to be obliged to kill, and eat their dogs. The Perhans, we are told by travellers, often expatriate themfelves, when they are forbidden the use of Tobacco, in order to enjoy it in a foreign country. These facts will not furprize those perfons who have been accuftomed to view our appetites when perverted to fuch things as are artificial and difagreeable, to be much more ungovernable than the appetite for things that are originally natural and agrecable.

But the use of Tobacco has been known to produce a more ferious effect upon the mind than the diftress that has been mentioned. Sir John Pringle's memory was impaired by fnuff. This was proved by his recovering the perfect exercise of it after he left off taking fnuff agreeably to the advice of his friend Dr. Franklin. Dr. Masillac informed me that his father lost his memory at forty years of age by the excessive use of fnuff. He took for feveral years two ounces of it every day.

In answer to these observations upon the morbid effects of Tobacco it has been said,

1. That it poffeffes many medical virtues. I grant it, and the facts which establish its utility in medicine furnish us with additional arguments against the *habitual* use of it. How feeble would be the effects of opium, and bark upon the body if they constituted a part of the condiments of our daily food;— While I admit the efficacy of Tobacco as a medicine, I cannot help adding, that some of the discases, or symptoms of discases which it relieves, are evidently induced by the habit of using it. Thus a dram of ardent spirits sufferends, for a while, a vomiting and tremors of the hands, but who does not know that those complaints, are the effects of the intemperate and habitual use of spirituous liquors?

2. The advocates for Tobacco, tell us that finoking, and fnuff relieve that une afine fs which fucceeda

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2 plentiful meal. I admit that the ftimulars of the Tobacco reftores the fystem from the indirect weakness which is induced by intemperance in eating, but the relief which is thus obtained, illy compensates for the waste of the faliva in smoking, at a time when it is most wanted, or for the mixture of a portion of the Tobacco with the aliment in the stomach by means of snussing. But why should we cure one evil by producing another ? would it not be much better to obviate the necessity of using Tobacco by always eating a moderate meal? The recollection of the remedy probably disposes to that intemperance in eating which produces the uneasiness that has been mentioned.

3. We are fometimes told that Tobacco is a prefervative from contagious difeafes. But many facts contradict this affertion. Mr. Howard informs us that it had no efficacy in checking the contagion of the plague, and repeated experience in Philadelphia has proved, that it is equally ineffectual in preferving those who use it, from the Influenza and Yellow Fever.

4. It has been further faid that chewing and fmoking Tobacco affift the intellectual operations. So do wine, and diftilled fpirits, but shall we upon that account, have recours to those liquors when we wish to stimulate our thinking faculties? Tea and Coffee are to be preferred, when we wish to stimulate the mind. Mr. Pope recommends a trotting horse for the same purpose. Rousseau excited his invention by walking backwards and forwards in his room. I fufpect that Tobacco is often ufed, rather to fupply the scant of ideas than to collect, or excite them. The abfence of fenfation, whether of external imprefions upon the body, or of the re-action of the mind in thought, is always accompanied with mifery. The Indians afford a ftriking proof of this remark—hence they fpend whole days and even weeks in fmoking, in order to relieve themfelves from the anguifh which attends the inactivity and vacuum of their minds.

We proceed next to mention the influence of the habitual use of Tobacco upon morals.

1. One of the ufual effects of fmoking and chewing is thirft. This thirft cannot be allayed by water, for no fedative or even infipid liquor will be relifhed after the mouth and throat have been exposed to the ftimulus of the fmoke, or juice of Tobacco. A defire of courfe is excited for firong drinks, and these when taken between meals foon lead to intemperance and drunkenness. One of the greatest fots I ever knew, acquired a love for ardent spirits by fwallowing cuds of Tobacco, which he did, to escape detection in the use of it, for he had centracted the habit of chewing, contrary to the advice and commands of his father. He died of a Dropfy under my care in the year 1780.

2. The use of Tobacco, more especially in smoking disposes to idlencis, and idlencis has been con-

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fidered as the root of all evil. "An idle man's brain," " (fays the celebrated and original Mr. Bunyan) " is the Devil's work fhop."

3. The use of Tobacco is necessarily connected with the neglect of cleanlines. The influence of this neglect upon morals has been happily pointed out is an extract from captain Cooke's journal, which is published by Sir John Pringle in one of his Orations before the Royal Society of London.

4. Tobacco, more especially when used in fmoking, is generally offensive to those people who do not use it. To fmoke in company under such circumflances, is a breach of good manners; now, manners have an influence upon morals. They may be confidered as the out posts of virtue. A habit of offending the fenses of friends or strangers by the use of Tobacco, cannot therefore be indulged with innocence. It produces a want of respect for our fellow creatures, and this always disposes to unkind and unjust behaviour towards them. Who ever knew a rude man completely, or uniformly moral?

The methodifts forbad the use of Tobacco in the infancy of their fociety. The prohibition discovered a high and just fense of the felf-denial, decency, and universal civility which are required by the gospel. What reception may we suppose would the apostles have met with, had they carried into the cities and houses to which they were feut, foust-boxes, pipes, あたいない

segars, and bundles of cut, or rolls of hog, or pigtait Tobacco? Such a coffly and offenfive apparatus for gratifying their appetites, would have furnished folid objections to their perfons and doctrines, and would have been a just cause for the clamors and contempt which were excited against them. It is agrecable to obferve that a regard to good manners, upon this fubject, has at last awakened in fome parts of the world. In England fmoking is not permitted in taverns and coffee houses until after 10 o'clock at night, and in France snuffing is becoming unfashionable and vulgar. How much is it to be lamented that while the use of Tobacco is declining in two of the most enlightned countries in Europe, it is becoming more general in America. Who can fee groups of boys of fix or eight years old in our streets smoking segars, without anticipating fuch a depreciation of our pofterity in health and character, as can fcarcely be contemplated at this distance of time without pain and horrer!

It remains now that I briefly point out the influence of the use of Tobacco upon time and property. Snuffing makes a great inroad upon time. A man who takes a pinch of snuff every twenty minutes, (which most habitual fnuffers do) and fnuffs fifteen hours in four and twenty, (allowing him to confume not quite half a minute every time he uses his box,) will waste about five whole days of every year of his life in this useles, and unwholesome practice. But

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when we add to the profitable use to which this time might have been applied, the expenses of Tobacco, pipes, fnuff and spitting boxes—and of the injurice which are done to the cleathing, during a whole life, the aggregate sum would probably amount to several hundred dollars. To a labouring man this would be a decent portion for a fon or daughter, while the same sum faved by a man in affluent circumstances, would have enabled him by a contribution to a public charity to have lessened a large portion of the ignorance, or milery of mankind.

In reviewing the account that has been given of the dilagreeable and mischievous effects of Tobacco, we are led to enquire, what are its uses upon our globe,-for we are assured that nothing, exists in vain. Poifon is a relative term, and the most noxious plants have been discovered to afford fustenance to certain animals. But what animal belides man, will take Tobacco into its mouth? Horfes, Cows, Sheep, Cats, Dogs, and even hogs refuse to taste it. Flies, Molquitoes, and the moth are chafed from our cloaths by the fmell of it. But let us not arraign the wildom and acconomy of nature in the production of this plant. Modern Travellers have at last discovered that it constitutes the food of a folitary and filthy wild beast, well known in the defarts of Africa, by the name of the ROCK GOAT.

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I shall conclude these observations by relating an Anecdote of the late Dr. Franklin. A few months before his death, he declared to one of his friends that he had never used Tobacco in any way in the course of his long life, and that he was disposed to believe there was not much advantage to be derived from it, for that he had never met with a man who used it, who advised him to follow his example. AN ACCOUNT OF THE SUGAR MAPLE-TREE OF THE UNITED STATES. IN A LETTER TO THOMAS JEFFER-SON, ESQ. THEN SECRETARY OF STATE OF THE UNITED STATES, AND ONE OF VICE PRESIDENTS OF THE AMERICAN PHILOSOPHICAL SOCIETY.

Dear Sir,

IN obedience to your request, I have fat down to communicate to our Society through the medium of 2 letter to you, a short account of the Sugar Maple-tree of the United States, together with such facts and remarks as I have been able to collect, upon the methods of obtaining Sugar from it, and upon the advantages both public and private, of this Sugar.

The Acer Sacharinum of Linnzus, or the Sugar Maple-tree, grows in great quantities in the western counties of all the Middle States of the American Union. Those which grow in New-York and Pennfylvania yield the Sugar in a greater quantity than those which grow on the waters of the Ohio. — These trees are generally found mixed with the Beech, (a) Hemlock, (b) White and water Ash, (c) the Cucumber tree, (d) Linden, (e) Aspen, (f) Butter Nut, (g) and Wild Cherry trees (h). They sometimes appear in groves covering five or fix acres in a body,

(a) Fagus Ferruginea.
 (b) Pinus abies.
 (c) Fraxinus Americana.
 (d) Magnolia acuminata.
 (e) Tilia Americana.
 (f) Populus tremula.
 (g) Juglatis alba (oblonga.)
 (h) Prunus Virginiana, of Linnæus:

but they are more commonly interfperfed with forme, or all of the forest trees which have been mentioned. From 30 to 50 trees are generally found upon an acre of ground. They grow only in the richest soils and frequently in flony ground. Springs of the purest water abound in their neighbourhood. They are when fully grown as tall as the white and black oaks, and from two to three feet in diameter.* They put forth a beautiful white blossom in the Spring before they show a single leaf. The colour of the blosom diftinguishes them from the acer rubrum, or the common maple, which affords a bloffom of a red colour. The wood of the Sugar Maple-tree is ex-^rremely inflammable, and is preferred upon that account by hunters and furveyors for fire-wood. Its fmall branches are fo much impregnated with fugar as to afford support to the cattle, horses, and sheep of the first fettlers during the winter, before they are able to cultivate forage for that purpose. Its ashes afford a great quantity of pot ash, exceeded by few, or perhaps by none of the trees that grow in the woods of the United States.

The tree is supposed to arrive at its full growth in the woods in twenty years.

* Baron La Hontan, in his voyage to North America, gives the following account of the Maple-tree in Canada. After deferibing the black Cherry-tree, fome of which he fays are as tall as the lofticit cake, and as big as a hogfheid, he adds, "The Maple-tree is much of the fame "height and bulk. It bears no refemblance to that fort we have in "Europe."

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It is not injured by tapping; on the contrary, the oftner it is tapped, the more fyrup is obtained from it. In this respect it follows a law of animal secretion. A fingle tree has not only furvived, but flourished after forty-two tappings in the same number of years. The effects of a yearly discharge of sap from the tree in improving and increasing the fap, is demonstrated from the superior excellence of those trees which have been perforated in an hundred places, by a fmall wood-pecker which feeds upon the fap. The trees after having been wounded in this way, diftil the remains of their juice on the ground, and afterwards acquire a black colour. The fap of these trees is much fweeter to the tafte than that which is obtained from trees which have not been previously wounded, and it affords more fugar.

From twenty-three gallons and one quart of fap procured in twenty hours from only two of these dark coloured trees, Arthur Noble, Esq. of the state of New-York, obtained four pounds and thirteen ounces of good grained sugar.

A tree of an ordinary fize yields in a good feafon from twenty to thirty gallons of fap, from which are made from five to fix pounds of fugar. To this there are fometimes remarkable exceptions. Samuel Low, Efq. a Juffice of Peace in Montgomery county, in the ftate of New-York, informed Arthur Noble, Efq. that he had made twenty pounds and one ounce of fugar between the 14th and 23d of April, in the year 1789, from a fingle tree that had been tapped for feveral fucceflive years before.

From the influence which culture has upon foreft and other trees, it has been fuppofed, that by tranfplanting the Sugar Maple tree into a garden, or by deftroying fuch other trees as fhelter it from the rays of the Sun, the quantity of the fap might be increased; and its quality much improved. I have heard of one fact which favours this opinion. A farmer in Northampton county in the ftate of Pennfylvania, planted a number of these trees above twenty years ago in his meadow, from *three* gallons of the fap of which he obtains every year a pound of fugar. It was remarked formerly that it required *five* or *fix* gallons of the fap of the trees which grow in the woods, to produce the fame quantity of fugar.

The fap diftils from the wood of the tree. Trees which have been cut down in the winter for the fupport of the domeftic animals of the new fettlers, yield a confiderable quantity of fap as foon as their trunks and limbs feel the rays of the Sun in the fpring of the year.

It is in confequence of the fap of these trees being equally diffused through every part of them, that they live three years after they are *girdled*, that is, after a circular incision is made through the bark into the substance of the tree for the purpose of destroying it. It is remarkable that grass thrives better under this tree in a meadow, than in situations exposed to the constant action of the Sun.

The seafon for tapping the trees is in February, March, and April, according to the weather which occurs in these months.

Warm days and frofty nights are most favourable to a plentiful discharge of sap.* The quantity obtained in a day from a tree, is from five gallons to a pint, according to the greater or less heat of the air. Mr. Low, informed Arthur Noble, Esq. that be obtained near three and twenty gallons of sap in one day (April 14, 1789.) from the single tree which was before mentioned. Such instances of a profusion of sap in fingle trees are however not very common.

There is always a fuspension of the discharge of of sap in the night if a frost succeed a warm day. The perforation in the tree is made with an axe or an auger. The latter is preferred from experience of its advantages. The auger is introduced about three-quarters of an inch, and in an ascending direction (that the

* The influence of the weather in increasing and lessening the discharge. of the sap from trees is very remarkable.

Dr. Tongue fuppoied long ago (Philosophical Transactions, No. 68) that changes in the weather of every kind might be better alcertained by the discharges of sap from trees than by weather glasses. I have seen a journal of the effects of heat, cold, moisture, drought and thunder upon the discharges from the sugar trees, which disposes me to believe that there is some foundation for Dr. Tongue's opinion.

fap may not be frozen in a flow current in the mor. nings or evenings) and is afterwards deepened gradually to the extent of two inches. A speut is introduced about half an inch into the hole, made by this auger, and projects from three to twelve inches from the tree. The fpout is generally made of the Sumach (a) or Elder, (b) which commonly grow in the neighbourhood of the fugar trees. The tree is first tapped on the South fide; when the difcharge of its fap begins to leffen, an opening is made on its North fide, from which an increased discharge takes place. The fap flows from four to fix weeks, according to the temperature of the weather. Troughs large enough to contain three or four gallons made of white pine, or white ash, or of dried water ash, aspen, linden, poplar, (c) or common maple, are placed under the fpout, to receive the fap, which is carried every day to a large receiver, made of either of the trees before mentioned. From this receiver it is conveyed, after being strained, to the boiler.

To preferve the fap from rain and impurities of all kinds, it is a good practice to cover the' troughs with a concave board, with a hole in the middle of it.

It remains yet to be determined whether fome artificial heat may be applied fo as to increase the quantity

(a) Rhus. (b) Sambucus canadenfis. (c) Liriodendron Tulipifers.

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and improve the quality of the fap. Mr. Noble informed me, that he faw a tree, under which a farmer , had accidently burnt fome brush, which dropped a a thick heavy fyrup refembling molaffes. This fact may probably lead to fomething ufeful hereafter.

During the remaining part of the fpring months, as also in the Summer, and in the beginning of Autumn, the maple tree yields a thin fap, but not fit for the manufactory of fugar. It affords a pleafant drink in harvest, and has been used instead of rum, in some instances by those farmers in Connecticut, whole anceftors have left to them here, and there, a fugar maple tree, (probably to fhade their cattle,) in all their fields. Mr. Bruce describes a drink of the fame kind, prepared by the inhabitants of Egypt, by infusing the fugar cane in water, which he declares to be " the most refreshing drink in the world."*

* Baron La Hontan, gives the following account of the sap of the fugar maple-tree, when used as a drink, and of the manner of obtaining Īt. "The tree yields a fap which has a much pleafanter tafte than the best lemonade or cherry water, and makes the wholesomest drink in the world. This liquor is drawn by cutting the tree two inches deep in the wood, the cut being made floping to the length of ten or twelve Inches; at the lower end of this gash, a knife is thrust into the tree slopingly, fo that the water runs along the cut or gash, as through a gutter and falls upon the knife, which has some vessels placed underneath to receive it. Some trees will yield five or fix bottles of this water in a isy, and fome inhabitants of Canada might draw twenty hogsheads of it in one day, if they would thus cut and notch all the maple trees of their refpective plantations. The gath does no barm to the tree. Of this fap they make fugar and fyrup which is fo valuable that there can be no better

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There are three methods of reducing the fap is fugar.

1. By freezing it; this method has been tried for many years, by Mr. Obediah Scott, a farmer in Luzerne county in this state, with great success. He fays that one half of a given quantity of sap rcduced in this way, is better than one-third of the same quantity reduced by boiling. If the frost should not be intense enough, to reduce the sap to the graining point, it may afterwards be exposed to the action of the fire for that purpose.

2. By fpontaneous evaporation. The hollow ftump of a maple-fugar tree, which had been cut down in the fpring, and which was found fometime afterwards filled with fugar, first fuggested this method of obtaining fugar to our farmers. So many circumstances of cold and dry weather, large and flat vessels, and above all fo much time are necessary to obtain fugar, by either of the above methods, that the most general method among our farmers is to obtain it,

3. By boiling. For this purpose the following facts which have been ascertained by many experiments, deferve attention.

I. The fooner the fap is boiled, after it is collected from the tree, the better. It fhould never be kept remedy for fortifying the stomach. 'Tis but few of the inhabiants that have the patience to make them, for as common things are slighted, fo there are scarce any body but children that give themselves he trouble of gashing these trees.'' longer than twenty four hours, before it is put over the fire.

2. The larger the vessel in which the sap is boiled, the more sugar is obtained from it.

3. A copper vessel affords a sugar of a fairer colour than an iron vessel.

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The fap flows into wooden troughs from which it is carried and poured into ftone troughs or large cifterns in the shape of a canoe or large manger made of white ash, linden, bass wood, or white pine, from which it is conveyed to the kettle in which it is to be boiled. These cisterns, as well as the kettle, are generally covered by a shed to defend the sap from the rain. The fugar is improved by straining the fap through a blanket or cloth, either before or after it is half boiled. Butter, hogs lard, or tallow are added to the fap in the kettle to prevent its boiling over, and lime, eggs or new-milk are mixed with it in order to clarify it. I have feen clear fugar made without the addition of either of them. A fpoonful of flack lime, the white of one egg, and a pint of new-milk are the ufual proportions of these articles which are mixed with fifteen gallons of fap. In fome famples which I have lately feen of maple-fugar clarified with each of the above articles, that, in which milk alone was used, had an evident superiority over the others, in point of colour.

The fugar after being fusiciently boiled, is grained and clayed, and afterwards refined, or converted into

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loaf fugar. The methods of conducting each of these proceffes is fo nearly the fame with those which are used in the manufactory of West-India sugar, and are so generally known, that I need not spend any time in describing them.

It has been a fubject of enquiry whether the maple sugar might not be improved in its quality and increased in its quantity by the establishment of boiling houses in the sugar maple country to be conducted by affociated labor. From the scattered situation of the trees, the difficulty of carrying the fap to a great distance, and from the many expenses which must accrue from supporting labourers and horses in the woods in a season of the year in which nature affords no fustenance to man or beast, I am disposed to believe that the most productive method both in quantity and profit of obtaining this fugar will be by the labor of private families. For a great number of years many hundred private families in New-York and Pennfylvania have fupplied themfelves plentifully with this fugar during the whole year. I have heard of many families who have made from two to four hundred pounds in a year; and of one man who fold fix hundred pounds, all made with his own hands in one scafon.*

* The following receipts published by William Cooper, Esq. in the Albany Gazette, fully establishes this fact.

"Received, Cooper's Town, April 3cth, 1790, of William Cooper, fixteen pounds, for fix hundred and forty pounds of lugar made with my THE SUGAR MAPLE-TREE.

Not more knowledge is necessary for making this fugar than is required to make soap, cyder, beer, four-crout, &c. and yet one or all of these are made in most of the farm houses of the United States. The kettles and other utensils of a farmer's kitchen, will ferve most of the purposes of making sugar, and the time required for the labor, (if it deserves that name) is at a season when it is impossible for the farmer to employ himself in any species of agriculture. His wife and all his children above ten years of age, moreover may affist him in this business, for the profit of the weakest of them is nearly equal to that of a man, when hired for that purpose.

A comparative view of this fugar has been frequently made with the fugar which is obtained from the West India fugar cane, with respect to its quality, price, and the possible or probable quantity that can be made of it in the United States, each of which I shall confider in order.

1. The quality of this fugar is neceffarily better than that which is made in the West-Indies. It is prepared in a season when not a single insect exists to feed upon it, or to mix its excretions with it, and

oron bands, without any affistance in lefs than four weeks, befides attending to the other business of my farm, as providing fire wood, taking care of the cattle, &c. John Nicholls. Witness R. Smith.

A fingle family, confifting of a man and his two fons, on the maple fugar lands between the Delaware and Sufquehannah made 1800lb. of maple fugar in one feafon. before a particle of dust or of the pollen of plants can float in the air. The fame observation cannot be applied to the West-India sugar. The infects and worms which prey upon it, and of course mix with it, compose a page in a nomenclature of natural history. I shall fay nothing of the hands which are employed in making fugar in the West-Indies but, that men who work for the exclusive benefit of others, are not under the fame obligations to keep their perfons clean while they are employed in this work, that men women and children are, who work exclusively for the benefit of themselves, and who have been educated in the habits of cleanlines. The superior purity of the maple fugat is farther proved by its leaving a lefs fediment when diffolved in water, than the West-India sugar.

It has been fuppoled that the maple fugar is inferier to the West-India fugar in *ftrength*. The experiments which led to this opinion, I fuspect have been inaccurate, or have been made with maple fugar, prepared in a flovenly manner. I have examined equal quantities, by weight, of both the grained and the loaf fugar, in hyfon tea, and in coffee, made in every respect equal by the minutest circumstances that could affect the quality or taste of each of them, and could perceive no inferiority in the strength of the maple fugar. The liquors which decided this question were examined at the fame time, by Alexander Hamilton, Efq. Secretary of the Treasury of the

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United States, Mr. Henry Drinker, and several Ladies, who all concurred in the above opinion.

2. Whoever confiders that the gift of the fugar maple trees is from a benevolent Providence, that we have many millions of acres in our country covered with them, that the tree is improved by repeated tappings, and that the fugar is obtained by the frugal labor of a farmer's family, and at the fame time confiders the labor of cultivating the fugar cane, the the capitals funk in fugar works, the first cost of flaves and cattle, the expenses of provisions for both of them, and in fome inftances the additional expense of conveying the fugar to a market, in all the West-India Islands, will not hefitate in believing that the maple fugar may be manufactured much cheaper, and fold at a *lefs price* than that which mand in the West-Indies.

3. The refources for making a fufficient quantity of this fugar not only for the confumption of the United States, but for exportation, will appear from the following facts. There are in the flates of New-York, and Pennfylvania alone at least ten millions of acres of land which produce the fugar mapletree, in the proportion of thirty trees to one acre. Now, fuppofing all the perfons capable of labor in a family to confift of three, and each perfon to attend 150 trees and each tree to yield 5lbs. of fugar in a feafon, the product of the labor of 60,000 families

would be 135,000,000 pounds of fugar, and allowing the inhabitants of the United States to compose 600,000 families, each of which confumed 200 pounds of fugar in a year, the whole confumption would be 120,000,000 pounds in a year, which would leave a balance of 15,000,000 pounds for exportation. Valuing the fugar at 6-90 of a dollar per pound, the fum faved to the United States would be 8,000,000 dollars by home confumption, and the fum gained by exportation would be 1,000,000 dollars. The only part of this calculation that will appear improbable is, the number of families fupposed to be employed in the manufactory of the fugar, but the difficulty of admitting this fuppofition will vanish when we confider, that double that number of families are employed every year, in making cyder, the trouble, risks and expenses of which are all much greater than those of making maple-fugar.

But the profit of the maple tree is not confined to its fugar. It affords a most agreeable molaffes, and an excellent vinegar. The fap which is fuitable for these purposes is obtained after the fap which affords the fugar has ceased to flow, fo that the manufactories of these different products of the maple tree, by *fucceeding*, do not interfere with each other. The molaffes may be made to compose the basis of a pleafant fummer beer. The fap of the maple is moreover capable of affording a spirit, but we hope this precious juice will never be profitued by our citi-

zens to this ignoble purpofe. Should the use of sugar in diet become more general in our country, it may tend to lessen the inclination or supposed necessity for spirits, for I have observed a relish for sugar in diet to be seldom accompanied by a love for strong drink. It is the sugar which is mixed with tea which makes it fo generally disagreeable to drunkards. But a diet, consisting of a plentiful mixture of sugar has other advantages to recommend it, which I shall briefly enumerate.

1. Sugar affords the greatest quantity of nourishment in a given quantity of matter of any substance in nature; of course it may be preserved in less room in our houses, and may be confumed in lefs time, than more bulky and lefs nourishing aliment. It has this peculiar advantage over most kinds of aliment, that it is not liable to have its nutritious qualities affected by time or the weather, hence it is preferred by the Indians in their excursions from home. They mix a certain quantity of Maple sugar, with an equal quantity of Indian corn, dried and powdered, in its milky state. This mixture is packed in little baskets, which are frequently wetted in travelling, without injuring the fugar. A few spoons full of it mixed with half a pint of spring water, afford them a pleafant and strengthening meal. From the degrees of ftrength and nourifhment, which are conveyed into animal bodies by a finall bulk of fugar, I conceive it might be given to horses with great advantage, when

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they are used in circumstances which make it difficult or expensive to support them, with more bulky or weighty aliment. A pound of sugar with grass or hay, I have been told, has supported the strength and spirits of an horse, during a whole day's labour in one of the West-Indiz Islands. A larger quantity given alone, has fattened horses and cattle during the war before last in Hispaniola, for a period of soveral months, in which the exportation of sugar, and the importation of grain, were prevented by the wart of ships.

2. The plentiful use of sugar in diet, is one of the best preventives that has ever been discovered of the diseases which are produced by worms. The Author of Nature seems to have implanted a love for this aliment in all children, as if it were on purpose to defend them from those diseases. I know a gentleman in Philadelphia, who early adopted this opinion, and who by indulging a large family of children, in the use of sugar, has preferved them all from the diseases use of sugar, has preferved them all from the diseases

3. Sir John Pringle has remarked, that the plague has never been known in any country where fugar composes a material part of the diet of the inhabitants. I think it probable, that the frequency of malignant fevers of all kinds has been leffened by this diet, and that its more general use would defend that class of people, who are most subject to malignant fevers, from being so often affected by them.

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4. In the numerous and frequent diforders of the break, which occur in all countries, where the body is exposed to a variable temperature of weather, fugar affords the bafis of many agreeable remedies. It is ufeful in weaknesses, and acrid defluxions upon other parts of the body. Many facts might be adduced in. favor of this affertion. I shall mention only one, which from the venerable name of the perion, whole cafe furnished it, cannot fail of commanding attention and credit. Upon my enquiring of Dr. Franklin, at the request of a friend, about a year before he died, whether he had found any relief from the pain of the ftone, from the Blackberry Jam, of which he took large quantities, he told me that he had, but that he believed the medicinal part of the jam, relided wholly in the fugar, and as a reason for thinking fo, he added, that he often found the fame relief, by taking about half a pint of a fyrup, prepared by boiling a little brown fugar in water, just before he went to bed, that he did from a dole of opium. \mathbf{R} has been supposed by some of the early physicians of our country, that the fugar obtained from the maple tree, is more medicinal, than that obtained from the West-India' sugar cane, but this opinion I believe is without foundation. It is preferable in its qualities to the West-India fugar only from its fuperior cleanlinefs.

Cales may occur in which fugar may be required in medicine, or in diet, by perfons who refuse to be

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beneficed, even indirectly by the labour of flaves. In fuch cafes, the innocent maple fugar will always be preferred*.

It has been faid, that fugar injures the teeth, but this opinion now has fo few advocates, that it does not deferve a ferious refutation.

To transmit to future generations, all the advantages which have been enumerated from the maple trèe, it will be necessary to protect it by law, or by a bounty upon the maple fugar; from being destroyed by the fettlers in the maple country, or to transplant it from the woods, and cultivate it in the old and improved parts of the United States. An orchard confifting of 200 trees, planted upon a common farm would yield more than the fame number of apple trees, at a diftance from a market town. A full grown tree in the woods yields five pounds of fugar a year. If a greater exposure of a tree to the action of the fun, has the fame effects upon the maple, that it has upon other trees, a larger quantity of fugar might reafonably be expected from each tree planted in an orchard. Allowing it to be only feven pounds, then 200 trees will yield 1400 pounds of fugar, and deducting 200 from the quantity, for the confumption of the family,

* Dr. Knowles, a phyfician of worthy character in London, had occasion to recommend a diet to a patient, of which fugar composed o material port. His patient refused to fulmit to his prefeription, and gave us a reason for it, that he had witnessed to much of the oppression and cracter which were exercised upon the slave, who made the fugar, that he had made a vow never to take the reduct of their milety at long at he lived there will rem in for fale 1200 pounds which at 6-90 of a dollar per pound will yield an annual profit to the farmer of 80 dollars. But if it fhould be found that the fhade of the maple does not check the growth of grain any more than it does of grafs, double or treble that number of maple trees may be planted on every farm, and a profit proportioned to the above calculation be derived from them. Should this mode of transplanting the means of obtaining fugar be fuccefsful, it will not be a new one. The fugar cane of the West-Indies, was brought originally frem the East Indies, by the Portugues, and cultivated at Madeira, from whence it was transplanted directly or indirectly, to all the fugar Islands of the West-Indies.

It were to be wished, that the settlers upon the fugar maple lands, would spare the sugar tree in clearing their lands, On a farm of 200 acres of land, according to our former calculation, there are usually 6,000 maple trees. If only 2,000 of those original and ancient inhabitants of the woods, were suffered to remain, and each tree were to afford only five pounds of sugar, the annual profit of such a farm in sugar alone, at the price formerly mentioned, would amount to 666 dollars, 150 dollars of which would probably more than defray all the expenses of making it, and allow a plentiful deduction for family use.

According to the ufual annual profit of a fugar maple tree, each tree is worth to a farmer, two dollars and 2-3 of a dollar; exclusive therefore of the value

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of his farm, the 2,000 fugar maple trees alone confer a value upon it of 5,230 dollars and 33-90 of a dollar.

It is faid, that the fugar trees when deprived of the shelter and fupport they derive from other forest trees, are liable to be blown down, occasioned by their growing in a rich, and of course a loose foil. To obviate this, it will only be necessary to cut off fome of their branches, fo as to alter its center of gravity, and to allow the high winds to have an easy passage through them. Orchards of fugar maple trees, which grow with an original exposure of all their parts to the action of the sun, will not be liable to this inconvenience.

In contemplating the prefent opening profpects in human affairs, I am led to expect that a material fhare of the happinefs, which Heaven feems to have prepared for a part of mankind, will be derived from the manufactory and general use of maple fugar, for the benefits which I flatter myfelf are to refult from its will not be confined to our own country. They will, I hope, extend themfelves to the interests of humanity m the West-Indies. With this view of the subject of this letter, I cannot help contemplating a sugar maple tree with a species of affection and even venerations for I Mave perfuaded myself, to behold in it the happy means of rendering the commerce and slavery of our African brethren, in the sugar Islands as unnecessary, as it has always been inhuman and unjust.

From, dear Sir, your fincere friend, July 10th 1791. BENJAMIN RUSH- AN ACCOUNT OF THE LIVE AND BEATH OF EDWARD DRINKER, WHO DIED ON THE 17TH OF NOVEMBER, 1788, IN THE 103 YEAR OF HIS AGE.

E DWARD DRINKER was born on the 24th of December, 1680, in a small cabbin, near the present corner of Walnut and Secondstreets, in the city of Philadelphia. His parents came from a place called Beverly, in the state Massachusetts. The banks of the Delaware, on which the city of Philadelphia now stands, were inhabited, at the time of his birth, by Indians, and a few Swedes and Hollanders. He often talked to his companions of picking whortle berries and catching rabbits, on fpots now the most improved and populous in the city. He recollected the fecond time William Penn came. to Pennsylvania, and used to point to the place where "the cabbin stood, in which he, and his friends, that accompanied him, were accommodated upon their arrival. At twelve years of age, he went to Boston, where he ferved his apprenticeship to a cabinet maker. In the year 1745, he returned to Philadelphia, with his family, where he lived until the time of his death. He was four times married, and had eighteen children, all of whom were by his first wife. At one time of his life, he sat down, at his own table, with fourteen children. Not long before his death he heard of the

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birth of a grand-child, to one of his grand-children, the fifth in fuccession to himself.

He retained all his faculties till the laft year of his life. Even his memory, fo early and fo generally diminifhed by age was but little impaired. He not only remembered the incidents of his childhood and youth*, but the events of latter years; and fo faithful was his memory to him, that his fon has informed me he never heard him tell the fame ftory twice, but to different perfons, and in different companies. His eye-fight

* It is remarkable that the incidents of childhood and youth are feldom remembered or called forth until old age. I have fometimes been led, from this and other circumstances, to fulpest that nothing is ever lost that is lodged in the memory, however it may be buried for a time by a variety of causes. How often do we find the transactions of early life, which we had reason to suppose were lost from the mind for ever, revived in our memories by certain accidental fights or founds, particularly by certain notes or airs in mufics. I have known a young man speak French fluently when drunk, that could not put two sentences of that language together, when fober. He had been taught it perfectly, when a boy, but had forgotten it from difuse. A French counters was nurfed by a Welth woman, from whom the learned to fpeak her language, which the foon forgot, after the had acquired the French, which was her mother tongue. In the delitium of a fever, many years afterwards, the was heard to mutter words which none of her family or attendants under-An old Welth woman came to fee her, who foon perceived that ftood. the founds which were fo unintelligible to the family, were the Welfh lan-When the recovered, the could not recoilect a fingle word of guage. the language, the had spoken in her fickness. I can conceive great advantages may be derived from this retentive power in our memories, in the advancement of the mind towards perfection in knowledge (fs effential to its happinefs) in a future world.

failed him, many years before his death, but his hearing was uniformly perfect and unimpaired. His appetite was good till within a few days before his death. He generally ate a hearty breakfast of a pint of tea or coffee, as foon as he got out of his bed, with bread and butter in proportion. He ate likewise at eleven o'clock, and never failed to eat plentifully at dinner of the groffest folid food. He drank tea, in the evening, but never ate any supper : he had lost all his teeth thirty years before his death, which was occasioned, his fon fays, by drawing exceffive hot imoke of tobacco into his mouth: but the want of fuitable mattication of his food, did not prevent its speedy digestion, nor impair his health. Whether the gums, hardened by age, supplied the place of his teeth in a certain degree, or whether the juices of the mouth and stomach became fo much more acrid by time, as to perform the office of diffolving the food more speedily and more perfectly, I know not, but I have often observed, that old people are most disposed to excertive eating, and that they fuffer fewest inconveniences from it. He was inquisitive after news in the last years of his life. His education did not lead him to increase the stock of his ideas any other way. But it is a fact well worth attending to, that old age, instead of diminishing, always increases the defire of knowledge. It must afford fome confolation to those who expect to be old, to discover, that the infirmities to which the decays of nature expose the human body, are rendered more

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tolerable by the enjoyments that are to be derived from the appetite for fenfual and intellectual food.

He was remarkably fober and temperate. Neither hard labour, nor company, nor the usual afflictions of human life, nor the wastes of nature, ever led him to an improper or exceflive use of strong drink. For the last twenty-five years of his life, he drank twice every day of toddy, made with two table spoonfuls of spirit, in half a pint of water. His son, a man of fifty-nine years of age, told me that he had never feen him intoxicated. The time and manner in which he used spirituous liquors, I believe, contributed to lighten the weight of his years, and probably to prolong his life. "Give wine to him that is " of a heavy heart, and ftrong drink to him that is " ready to perish with age, as well as with fickness. " Let him drink and forget his forrow, and remember " his misery no more."

He enjoyed an uncommon fhare of health, infomuch that in the courfe of his long life he never was confined more than three days to his bed. He often declared that he had no idea of that most diffreffing pain called the head ache. His fleep was interrupted a little in the last years of his life with a defluxion on his breast, which produced what is commonly called the old man's cough.

The character of this aged citizen was not fummed up in his negative quality of temperance : he was a

man of the most amiable temper : old age had not curdled his blood ; he was uniformly chearful and kind to every body; his religious principles were as steady as his morals were pure. He attended public worship about thirty years in the Rev. Dr. Sproat's church, and died in a full assurance of a happy immortality. The life of this man is marked with feveral circumstances, which perhaps have feldom occured in the life of an individual events. He saw and heard more of those events which are measured by time, than have ever been feen or heard by any mane fince the ageof the patriarchs; he faw the fame fpot of earth, which at one period of his life, was covered with wood and bushes, and the receptacle of beasts and birds of prey, afterwards become the feat of a city not only the first in wealth and arts in the new, but rivalling in both, many of the first cities in the old world. He faw regular streets where he once pursued a hare: he faw churches rifing upon moraffes, where he had often heard the croaking of frogs; he faw wharfs and warehouses, where he had often feen Indian favages draw fish from the river for their daily sublistence; and he faw ships of every fize and use in those streams, where he had often feen nothing but Indian canoes; he faw a stately edifice filled with legislators, astonishing the world with their wildom and virtue, on the fame fpot, probably, where he had feen an Indian council fire; he faw the first treaty ratified between the newly confederated powers of America and the

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ancient monarchy of France, with all the formalities of parchment and feals, on the fame fpot, probably, where he once faw William Penn ratify his first and last treaty with the Indians, without the formality of pen, ink or paper; he faw all the intermediate stages through which a people pass, from the most fimple to the highest degrees of civilization. He faw the beginning and end of the empire of Great-Britain, in Pennsylvania. He had been the subject of seven successive crowned heads, and afterwards became a willing citizen of a republic; for he embraced the liberties and independence of America in his withered arms, and triumphed in the last years of his life in the falvation of his country. REMARKABLE CIRCUMSTANCES IN THE CONSTITUTION AND LIFE OF ANN WOODS, AN OLD WOMAN OF 96 YEARS OF AGE.

IN the fummer of the year 1788, while I was engaged in collecting the facts upon the fubject of old age, which I have fince published,* a poor woman came to my house to beg for cold victuals. Perceiving by her countenance, and the ftoop in her walk, that the was very old, I requested her to fit down by me, while I recorded the following information, which I received from her, and which was confirmed to me a few days afterwards, by one of her daughters with whom the lived. Her name was Ann Woods. Her age at that time was 96. She was born in Herefordshire, in England, and came to . this city when she was but ten years old, where she had lived ever fince. She had been twice married. By her first husband Wm. Dickfon, she had nine chil- . dren, four of whom were then living. By her fecond husband Joseph Woods, whom the married after she was fixty years old, she had one child, born within ten months after her marriage. There were intervals of two and nearly three years between each of her children. Three died soon after weaning them at the usual age in which children are taken from

* Medical Enquiries and Observations. vol. 2.

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the breast. This led her to suckle her other children during the whole time of her pregnancy, and in feveral instances, she suckled two of them, born in fuccession to each other, at the fame time. One of her children by her first hu band, fucked until it wasfive years old. Her menses appeared between her nineteenth and twentieth years and continued without any intermission, except during her pregnancy and eleven months after the birth of each of her children, until she was eighty years of age. At the time I faw her, she heard tolerably well, but her sight was loft in one eye, and was weak in the other. She loft all her teeth when she was between sifty and sixty years of age. Her hair became grey when she was between forty and fifty. Her sleep was not found, owing to her having been afflicted with the Rheumatifn, a difeafe which was brought on her by the alternate heat and cold to which fire had exposed herfelf, by following the bulinels of a walher woman for many years. She had had feveral attacks of the intermitting fever, and of the Pleurify in the courfe of her life, and was much affisted with the Head-ache after her menses ceased. She had been frequently Eled while afflicted with the above difeases. Her diet was fimple, confifting chiefly of weak tea, milk, cheefe, butter and vegetables. Meat of all kinds, except yeal, difagreed with her stomach. She found great benefit from frequently changing her aliment. Her drinks were water, cyder and water, molafles and vinegar in

water. She had never ufed fpirits. Her memory was but little impaired. She was cheerful and thankful that her condition in life was happier than hundreds of other old people.

From the hiltory of this old woman's conftitution and manner of life, the following observations will naturally occur to the reader.

1. That there is a great latitude in the time in which the menfes ceafe. It is more common for them in their excentricities, to difappear at the ufual time, and to return in extreme old age. In the year 1795, I faw a cafe of this kind in a woman of feventy years of age in the Pennfylvania hofpital.

2. There is a great latitude in the time in which women bear children. Many children are born between fifty and fixty, but very few I believe beyond fixty.

3. It appears from the history that has been given, that acute and chronic difeases is opposed by temperance and fuitable remedies, do not necessarily florten the duration of human life.

4. That child-bearing, and fuckling children, do not materially affect health, or longevity, where their effects are opposed by temperance and moderate labor.

5. That the evils of life are feldom fo numerous, as not to leave room for thankfulnefs for an exemption

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from a great deal of mifery. This poor woman did not complain of her weaknefs, pains or poverty. On the contrary, fhe appeared thankful under all the afflictions of her life. While the indolent are commanded by the wife man to go to the ant to learn industry, those perfons who abound with all the external means of happinefs, and at the fame time complain of the moral government of our world, may be invited to fit down by the fide of Ann Woods, and learn from the example of her gratitude to heaven, for a fingle drop of divine gootnefs, to render unceafing thanks for the ocean of bleffings they derive from the fame fource. BIOGRAPHICAL ANECDOTES OF BENJAMAIN LAY.

THERE was a time when the name of this celebrated Christian Philosopher, was familiar to every man, woman and to nearly every child, in Pennsylvania.—His fize, which was not much above four feet, his dress, which was always the fame, consisting of light-coloured plain clothes, a white hat, and half-boots ;—his milk white beard, which hung upon his breast; and, above all, his peculiar principles and conduct, rendered him to many, an object of admiration, and to all, the subject of conversation.—

He was born in England, and fpent the early part of his life at fea. His first fettlement was in Barbadoes, as a merchant, where he was foon convinced of the iniquity of the flave trade. He bore an open testimony against it, in all companies, by which means he rendered himself fo unpopular, that he left the island in difgust, and settled in the then province of Pennsylvania. He fixed his home at Abington, ten miles from Philadelphia, from whence he made frequent excursions to the city, and to different parts of the country.—

At the time of his arrival in Pennfylvania, he found many of his brethren, the people' called Quakers, had fallen fo far from their original principles, as to

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keep negro flaves. He remonstrated with them, both publickly and privately, against the practice; but, frequently with so much indiferent zeal, as to give great offence. He often disturbed their public meetings, by interrupting or opposing their preachers, for which he was once carried out of a meeting-house, by two or three friends.—Upon this occasion he submitted with patience to what he considered a species of perfecution.—He lay down at the door of the meetinghouse, in a shower of rain, till divine worship was ended; nor could he be prevailed upon to rise, till the whole congregation had stepped over him in their way to their respective homes.—

To fhew his indignation against the practice of flave-keeping, he once carried a bladder filled with blood into a meeting; and, in the prefence of the whole congregation, thrust a fword, which he had concealed under his coat, into the bladder, exclaiming, at the fame time, " Thus shall God shed the blood " of those perfons who enflave their fellow crea-" tures." The terror of this extravagant and unexpected act, produced strate function.—

He once went into the houfe of a friend in Philadelphia, and found him feated at breakfast, with his family around him. Being asked by him to sit down and breakfast with them, he said, "Dost thou keep " flaves in thy house?" Upon being answered in the

affirmative, he faid, "Then I will not partake with "thee, of the fruits of thy unrighteoufnefs."

He took great pains to convince a farmer and his wife, in Chelter county, of the iniquity of keeping negro flaves, but to no purpose. They not only kept their flaves, but defended the practice. One day he went into their house, and after a short discourse with them upon the wickedness, and particularly the inhumanity of separating children from their parents, which was involved in the flave trade, he feized the only child of the family, (a little girl about the family, a little girl about the family and the family of the fa old) and pretended to run away with her-The child cried bitterly, « I will be good, -- I will be good," and the purents ilsewed figns of being alarmed. Upon observing this scene, Mr. Lay said, very emphatically,-"You fee, and feel now a little of the « distress you occasion every day, by the inhuman " practice of flave-keeping."

This fingular philosopher did not limit his pionstestimony against vice, to flave-keeping alone. He was opposed to every species of extravagance. Upon the introduction of tea, as an article of diet, into Pennfylvania, his wife bought a small quantity of it, with a fett of cups and faucers, and brought them home with her. Mr. Lay took them from her, brought them back again to the city, and from the alcony of the court-house feattered the tea, and broke the cups and faucers, in the prefence of many hundred spectrators, delivering, at the fame time, a striking lecture

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upon the folly of preferring that foreign herb, with its expensive appurtenances, to the simple and wholefome diet of our country.

He poffeffed a good deal of wit, and was quick at rapartee. A citizen of Philadelphia, who knew his peculiarities, once met him in a croud, at a funeral, in Germantown. Being defirous of entering into a conversation with him that should divert the company, the citizen accosted him, with the most respectful ceremony, and declared himfelf to be " his most humble servant." " Art thou my servant." said Mr. Lay,-" Yes-I am" faid the citizen. " Then, faid Mr. Lay, (holding up his foot towards him,) clean this shoe".---This unexpected reply turned the laugh upon the citizen. Being defirous of recovering himfelf in the opinion of the company, he asked him to instruct him in the way to heaven. "Dost thou in-" deed wish to be taught," said Mr. Lay. " I do," faid the citizen. « Then," faid Mr. Lay, « Do justice « ---love mercy, and walk humbly with thy God."

He wrote a fmall treatife upon negro-flavery, which he brought to Dr. Franklin to be printed. Upon looking over it, the Doctor told him that it was not paged, and that there appeared to be no order or arrangement in it. "It is no matter faid Mr. Lay—print " any part thou pleafeft firft."—This book contained many pious fentiments, and ftrong expressions againft negro-flavery; but even the address and skill of Dr. Franklin were not fufficient to connectifts different parts together, fo as to render it an agreeable or ufeful work. This book is in the library of the city of Philadelphia.

Mr. Lay was extremely attentive to young people. He took great pleafure in vifiting fchools, where he often preached to the youth. He frequently carried a bafket of religious books with him, and distributed them as prizes, among the fcholars.

He was fond of reading. In the print of him, which is to be feen in many houfes in Philadelphia, he is reprefented with "Tryon on happinefs" in his hand, a book which he valued very much, and which he frequently carried with him, in his excursions from home.

He was kind and charitable to the poor, but had no compaffion for beggars. He used to fay, " there was " no man or woman, who was able to go abroad " to beg, that was not able to earn *four pence* a. " day, and this fum, he faid, was enough to keep " any perfon above want, or dependence, in this " country."

He was a fevere enemy to idlenefs, infomuch that when he could not employ himfelf out of doors, or when he was tired of reading, he used to spend his time in spinning. His common sitting room was hung with skains of thread, spun entirely by himself. All his clothes were of his own manufactory. He was extremely temperate in his diet, living chiefly upon vegetables.—Turnips boiled, and afterwards rotafted, were his favourite dinner. His drink was pure water. From a defire of imitating our Saviour, in every thing, he once attempted to fast for forty days. This experiment, it is faid, had nearly cost him his life. He was obliged to defist from it, long before the forty days were expired; but the fasting, it was faid, fo much debilitated his body, as to accelerate his death. He lived above eighty years, and died in his own house in Abington, about thirty years ago.

In reviewing the hiftory of this extraordinary man, we cannot help abfolving him of his weakneffes, when we contemplate his many active virtues. He was the pioneer of that war, which has fince been carried on, to fuccefsfully, against the commerce and flavery of the negroes.- Perhaps the turbulence and feverity of his temper were neceffary to rouse the torpor of the human mind, at the period in which he lived, to this' interesting subject! The meckness and gentleness of Anthony Benezet, who completed what Mr. Lay began, would probably have been as infusficient for the work performed by Mr. Lay, as the humble piety of De Renty, or of Thomas A Kempis, would have been to have accomplished the works of the zealous Luther, or the intrepid Knox in the fixteenth century.

The fuscels of Mr. Lay, in fowing the feeds of a principle which bids fair to produce a revolution in

morals—commerce—and government, in the new and in the old world, fhould teach the benefactors of mankind not to defpair, if they do not fee the fruits of their benevolent propositions, or undertakings, during their lives.—No one feed of truth or virtue ever perished.—Wherever it may be sowed, or even scattered, it will preferve and carry with it the principle of life.—Some of these feeds produce their fruits in a fhort time, but the most valuable of them, like the venerable oak—are centuries in growing; but they are unlike the pride of the forests, as well as all other vegetable productions, in being incapable of a decay.

They exist and bloom for ever.

Feburary 10th. 1790.

BIOGRAPHICAL ANECDOTES OF ANTHONY BENEZET.

THIS excellent man was placed by his friends in early life in a counting houfe, but finding commerce opened temptations to a worldly fpirit, he left his mafter, and bound himfelf as an apprentice to a cooper. Finding this bufinefs too laborious for his conftitution, he declined it, and devoted himfelf to fchool-kceping; in which afeful employment, he continued during the greateft part of his life.

He possessed uncommon activity and industry in every thing he undertook. He did every thing as if the

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words of his Saviour were perpetually founding in his ears, " wift ye not, that I muft be about my Father's " bufinefs?"

He used to say, " the highest act of charity in the world was to bear with the unrecsonableness of mankind."

He generally wore plush clothes, and gave as a reason for it, that after he had worn them for two or three years, they made comfortable and decent garments for the poor.

He once informed a young friend, that his memory began to fail him; "but this," faid he, "gives me • one great advantage over thee—for thou canft find " entertainment in reading a good book only once—but " I enjoy that pleafure as often as I read it; for it " is always new to me."

He published feveral valuable tracts in favor of the emancipation of the blacks, and of the civilizing and christianizing the Indians. He also published a pamphlet against the use of ardent spirits. All these publications were circulated with great industry, and at his own expense, throughout every part of the United States.

He wrote letters to the queen of Great-Britain, and to the queen of Fortugal to use their influence with their respective courts to abolish the African trade. He accompanied his letter to the queen of Great-Britain with a prefent of his works. The queen received them with great politenefs, and faid after reading them.
" that the author appeared to be a very good man."

He also wrote a letter to the king of Prussia, in which he endeavoured to convince him of the unlawfulness of war.

During the time the British army was in possible of the city of Philadelphia, he was indefatigable in his endeavours to render the fituation of the persons who fuffered from captivity as easy as possible. He knew no fear in the prefence of his fellow men, however dignified they were by titles or station, and such were the propriety and gentleness of his manners in his intercours with the gentlemen who commanded the British and German troops, that when he could not obtain the objects of his requests, he never failed to secure their civilities, and frequently their esteem.

So great was his fympathy with every thing that was capable of feeling pain, that he refolved towards the close of his life, to eat no animal food. Upon coming into his brother's house one day, when his family was dining upon poultry, he was asked by his brother's wife, to fit down and dine with them. "What! (faid he) would you have me eat my neighbours?

This mifapplication of a moral feeling, was fuppofed to have brought on fuch a debility in his stomach and bowels, as produced a difease in those parts of which he finally died. S s

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Few men, fince the days of the apostles, ever lived a more difinterested life. And yet, upon his death bed, he faid, he wished to live a little longer, that " he might bring down SELF."

The last time he ever walked across his room, was to take from his desk six dollars, which he gave to a poor widow whom he had long assisted to maintain.

He bequeathed after the death of his widow, a houfe and lot in which confifted his whole eftate, to the fupport of a fchool for the education of negro children, which he had founded and taught for feveral years before his death.

He died in May 1784, in the 71ft. year of his age.

His funeral was attended by perfons of all religious denominations, and by many hundred black people.

Colonel J—n, who had ferved in the American army, during the late war, in returning from the funcral, pronounced an eulogium upon him. It confifted only of the following words: "I would rather," faid he, " be Anthony Benezet in that coffin, than George Washington with all his fame."

July 15, 1788.

PARADISE OF NEGRO-SLAVES .--- A DREAM.

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COON after reading Mr. Clarkson's ingeni-O ous and pathetic effay on the flavery and commerce of the human species, the subject made fo deep an impression upon my mind, that it followed me in my fleep, and produced a dream of fo extraordinary a nature, that I have yielded to the importunities of some of my friends, by communicating it to the public. I thought I was conducted to a country, which in point of cultivation and scenery, far furpassed any thing I had ever heard, or read of in my life. This country, I found, was inhabited only by negroes. They appeared cheerful and happy. Upon my approaching a beautiful grove, where a number of them were affembled for religious purposes, I perceived at once a pause in their exercises, and an appearance of general perturbation. They fixed their eyes upon me-while one of them, a venerable looking man, came forward, and in the name of the whole assembly, addressed me in the following language.

" Excufe the panic which you have fpread through this peaceful and happy company : we perceive that you are a *white man.*—That colour which is the emblem of innocence in every other creature of God, is to us a fign of guilt in man. The perfone whom you fee here, were once dragged by the men of your colour from their native country, and con" figned by them to labour --punifhment---and death. "-We are here collected together, and enjoy an " ample compensation in our present employments " for all the miseries we endured on earth. We know " that we are secured by the Being whom we worship, " from injury and oppression. Our appearance of " terror, therefore, was entirely the sudden effect of " habits which have not yet been eradicated from our " minds."

"Your apprehenfions of danger from the fight of a white man," faid I, "are natural. But in meyou behold a friend. I have been your advocateand."---Here, he interrupted me, and faid, "Is not your name---?" I anfwered in the affirmative. Upon this he ran up and embraced me in his arms, and afterwards conducted me into the midft of the affembly, where, after being introduced to the principal characters, I was feated upon a bank of mofs; and the following account was delivered to me by the venerable perion who firft accofted me.

"The place we now occupy, is called the *paradife* of negro flaves. It is defined to be our place of refidence 'till the general judgement; after which time, we expect to be admitted into higher and more perfect degrees of happinefs. Here we derive great pleafure from contemplating the infinite goodnefs of God, in allotting to us our full proportion of mifery on earth; by which means we have cfcaped the punifhments, to which the free and happy part of

mankind too often expose themselves after death.
Here we have learned to thank God, for all the afflictions our talk-masters heaped on us; inasmuch, as
they were the means of our present happiness.
Pain and distress are the unavoidable portions of all
mankind. They are the only possible avenues that
can conduct them to peace and felicity. Happy
are they, who partake of their proportion of both upon the earth." Here he ended.—

After a filence of a few minutes, a young man, who bore on his head the mark of a wound, came up to me, and afked "If I knew any thing of Mr....., " of the Island of _____" I told him "I did not." __" Mr.____," faid he, " was my mafter. One " day, I miftook his orders, and faddled his mare in-" ftead of his horfe, which provoked him fo much, " that he took up an are which laid in his yard, and " with a ftroke on my head, difmiffed me from life.

" I long to hear, whether he has repented of this unkind action. Do, fir, write to him, and tell him, his fin is not too great to be forgiven, tell him, his once miferable flave, Scipio, is not angry at him -he longs to bear his prayers to the offended majefty of heaven-and-when he dies-Scipio will apply to be one of the convoy, that fhall conduct his fpirit to the regions of blifs appointed for those who repent of their iniquities."

Before I could reply to this speech, an old man came and fat down by my side. His wool was white

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as snow. With a low, but gentle voice, he thus addressed me.

" Sir, I was the flave of Mr. ----, in the island « of-I ferved him faithfully upwards of fixty years. « No rifing fun ever caught me in my cabin-no " fetting fun ever faw me out of the fugar field, " except on fundays and holydays. My whole fubfift-" ence never cost my master more than forty shil-" lings a year. Herrings and roots were my only food. "One day; in the eightieth year of my age, the over-" feer faw me ftop to reft myfelf against the fide of "a tree, where I was at work. He came up to " me, and beat me, 'till he could endure the fatigue " and heat occasioned by the blows he gave me, " no longer. Nor was this all-he complained of " me to my master, who instantly set me up at public " vendue, and fold me for two guineas to a tavern-" keeper, in a diftant parish. The distress I felt, in " leaving my children, and grand-children (28 of whom " I left on my old master's plantation) foon put an end " to my existence, and landed me upon these happy " fhores. I have now no wifh to gratify but one-and " that is to be permitted to vifit my old mafter's family. " I long to tell my mafter, that his wealth cannot make " him happy .-- That the fufferings of a fingle hour in " the world of mifery, for which he is preparing himfelf, will overbalance all the pleafures he ever enjoy-" ed in his life-and that for every act of unnecessary " feverity he inflicts upon his flaves, he shall fusser " tenfold in the world to come."

He had hardly finished his tale, when a decent looking woman came fotward, and addressed me in the following language.—Sir,

" I was once the flave of Mr. ----, in the ftate " of ——. From the healthiness of my constitution, I " was called upon to fuckle my Master's eldest fon. To " enable me to perform this office more effectually, " my own child was taken from my breast, and soon " afterwards died. My affections in the first emo-" tions of my grief, fastened themselves upon my in-" fant master. He thrived under my care and grew up " a handfome young man. Upon the death of his " father, I became his property .--- Soon after this " event, he lost 1001. at cards. To raise this money " I was fold to a planter in a neighbouring state. " I can never forget the anguish, with which my " aged father and mother followed me to the end of " the lane, when I left my master's house, and hung " upon me, when they bid me farewell."

" My new mafter obliged me to work in the field; " the confequence of which was, I caught a fever " which in a few weeks ended my life. Say, my " friend, is my first young master still alive? — If " he is—go to him, and tell him, his unkind " behaviour to me is upon record against him. The " gentle spirits in heaven, whose happiness consists " in expressions of gratitude and love, will have no " fellowship with him.—His foul must be melted with " pity, or he can never escape the punishment which awaits the hard-hearted, equally with the impenitent, in the regions of misery."

As foon as she had finished her story, a middle aged woman approached me, and after a low and respectful curtsey, thus addressed me.

" Sir I was born and educated in a christian family " in one of the southern states of America. In the " thirty-third year of my age, I applied to my mafter " to purchase my freedom. Instead of granting my " request, he conveyed me by force on board of a vessel ", and fold me to a planter in the island of Hispaniola. "Here it pleafed God."------Upon pronouncing these words, she paused, and a general silence ensued. -All at once, the eyes of the whole affembly were turned from me, and directed towards a little white man who advanced towards them, on the opposite fide of the grove, in which we were feated. His face was grave, placid, and full of benignity. In one hand he carried a subscription paper and a petition---in the other, he carried a small pamphlet, on the unlawfulness of the African flave-trade, and a letter directed to the King of Prussia, upon the unlawfulness of war. While I was employed in contemplating this venerarable figure-fuddenly I beheld the whole affembly running to meet him—the air refounded with the clapping of hands-and I awoke from my dream, by the noife of a general acclamation of-

ANTHONY BENEZET!

AN EULOGIUM UPON DR. WILLIAM CULLEN, PROFESSOR OF THE PRACTICE OF PHYSIC IN THE UNIVERSITY OF EDINBURGH; DELIVERED BEFORE THE COLLEGE OF PHYSICIANS OF PHILADELA PHIA, ON THE 9TH OF JULY, AGREEABLY TO THEIR VOTE OF THE 4TH OF MAY, 1790, AND AFTERWARDS PUBLISHED AT THEIR ALQUEST.

Mr. President and Gentlemen;

Y your unanimous vote, to honour with an B Eulogium, the character of the late DR. WILLIAM CULLEN, Proseffor of medecine in the University of Edinburgh, you have done equal homage to Science and Humanity. This illustrious Physician was the Preceptor of many of us :--He was moreover a diffinguished citizen of the republic of Medecine, and a benefactor to Mankind; and although, like the fun, he shone in a distant hemisphere, yet many of the rays of his knowledge have fallen upon this quarter of the globe. I rife, therefore, to mingle your grateful praises of him, with the numerous offerings of public and private respect which have been paid to his memory in his native country. Happy will be the effects of fuch acts of distant fympathy, if they should ferve to unite the influence of science with that of Commerce, to lessen the prejudices of nations against each other, and thereby to prepare the way for the operation of that divine fystem of morals, whose

prerogative alone it is, to teach mankind that they are brethren, and to make the name of a fellowcreature, in every region of the world, a fignal for brotherly affection.

In executing the tafk you have imposed upon me, I shall confine myself to such parts of Dr. Cullen's character as came within the compass of my own knowledge, during two years residence in Edinburgh. —To his fellow citizens in Great Britain, who were more intimately acquainted with him, we must refign the history of his domestic character, as well as the detail of all those steps which, in early life, led him to his unparalleled height of usefulness and fame.

Br. CULLEN poffeffed a great and original genius. By genius, in the prefent inftance, I mean a power in the human mind of difcovering the relation of diftant truths, by the fhorteft train of intermediate propofitions. This precious gift of Heaven, is compofed of a vigorous imagination, quick fenfibility, a talent for extensive and accurate observation, a faithful memory, and a found judgment. These faculties were all united in an eminent degree in the mind of Dr. Cullen. His imagination furveyed all nature at a glance, and, like a camera obscura, feemed to produce in his mind a picture of the whole visible creation. His fensibility was fo exquisite, that the fmalleft portions of truth acted upon it. By means

of his talent for observation he collected knowledge from every thing he heard, faw, or read, and from every person with whom he conversed. His memory was the faithful repolitory of all his ideas, and appeared to be alike accurate upon all subjects. Over each of these faculties of his mind a found judgment prefided, by means of which he discovered the relation of ideas to each other, and thereby produced those new combinations which constitute principles in fcience. This process of the mind has been called invention, and is totally different from a mere capacity of acquiring learning, or collecting knowledge from the difcoveries of others. It elevates man to a distant resemblance of his Maker; for the difcovery of truth, is the perception of things as they appear to the Divine Mind.

In contemplating the human faculties, thus exquifitely formed, and exactly balanced, we feel the fame kind of pleafure which arifes from a view of a magnificent palace, or an extensive and variegated prospect; but with this difference, that the pleafure, in the first instance, is as much superior to that which arises from contemplating the latter objects, as the mind of man is superior, in its importance, to the most finished productions of nature or of art,

DR. CULLEN possessed not only the genius that has been defcribed, but an uncommon share of lear ing, reading, and knowledge.

His learning was of a peculiar and uleful kind-He appeared to have overstepped the slow and tedious forms of the schools, and, by the force of his understanding, to have seized upon the great ends of learning, without the assistance of many of those means which were contrived for the use of less active minds. He read the ancient. Greek and Roman writers only for the fake of the knowledge which they contained, with out wasting any of the efforts of his genius in attempting to imitate their ftyle. He was intimately acquainted with modern languages, and through their means, with the improvements of medicine in every country in Europe. Such was the facility with which he acquired a language, and fo great was his enterprise in his refearches in medicine, that I once heard him fpeak of learning the Arabic for the fake of reading Avicenna in the original, as if it were a matter of as little difficulty to him, as it was to compose a lecture, or to visit a patient.

DR. CULLEN'S reading was extensive, but it was not confined wholly to medicine. He read books upon all fubjects; and he had a peculiar art of extracting fomething from all of them which he made fubfervient to his profession. He was well acquainted with ancient and modern history, and delighted in the poets, among whom Shakespeare was his favourite. The history of our globe, as unfolded by books of geography and travels, was fo familiar to him that strangers could not converse with him, without

fuppoing that he had not only travelled, but that he had lived every where. His memory had no rubbifh in it. Like a fecretory organ, in the animal body, it it rejected every thing in reading that could not be applied to fome ufeful purpofe. In this he has given the world a most valuable leffon, for the difference between error and ufelefs truth is very fmall; and a man is no wifer for knowledge which he cannot apply, than he is rich from poffeffing wealth, which he cannot fpend.

BR. CULLEN's knowledge was minute in every branch of medicine. He was an accurate anatomist, and an ingenious physiologist. He enlarged the boundaries, and established the utility of Chemistry, and thereby prepared the way for the discoveries and fame of his illustrious pupil Dr. Black. He stripped Materia Medica, of most of the errors that had been accumulating in it for two thousand years, and reduced it to a simple and practical science. He was intimately acquainted with all the branches of natural hiftory. and philosophy. He had studied every ancient and modern system of physic. He found the system of Dr. Boerhave univerfally adopted when he accepted a chair in the University of Edinburgh. This system was founded chiefly on the fupposed presence of certain acrid particles in the fluids, and in the departure of these, in point of confistency, from a natural state. Dr. Cullen's first object was to expose the errors of this pathology; and to teach his pupils to feek for

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the caufes of difeafes in the folids. Nature is always coy. Ever fince fhe was driven from the heart, by the difcovery of the circulation of the blood, fhe has concealed herfelf in the brain and nerves. Here fhe has been purfued by Dr. Cullen; and if he has not dragged her to public view, he has left us a clue which muft in time conduct us to her laft recefs in the human body. Many, however, of the operations of nature in the nervous fyftem have been explained by him; and no candid man will ever explain the whole of them, without acknowledging that the foundation of his fuccefsful inquiries was laid by the difcoveries of Dr. Cullen.

He was intimately acquainted with the hiftories and diffinctions of the difeafes of all countries, ages, ftations, occupations, and ftates of fociety. While his great object was to explode ufelefs remedies, he took pains to increafe the influence of diet, drefs, air, exercife, and the actions of the mind, in medicine. In a word he was a great practical phyfician; and he has left behind him as many monuments of his fuccefs in curing difeafes, as he has of accuracy and ingenuity in defcribing their fymptoms and explaining their caufes.

But his knowledge was not confined wholly to those fciences which are intimately connected with medicine. His genius was universal, as to natural and artificial subjects. He was minutely acquainted

with the principles and practices of all the liberal, mechanical, and chemical arts; and tradefmen were often directed by him to new objects of observation and improvement in their respective occupations. He delighted in the study of agriculture, and contributed much to excite that tafte for agricultural fcience, which has of late years so much diffinguished the men of genius and leifure in North-Britain. I have been informed, that he yielded at last to that passion for rural improvements, which is common to all men, and amused himself in the evening of his life by cultivating a farm in the neighbourhood of Edinburgh. Happy would it be for the interests of agriculture, if phyficians in all countries, would imitate Dr. Cullen by an attachment to this noble science; for their previous studies are of such a nature as frequently to enable them to arrive at improvements in it without experiments, and to apply the experiments of others, in the most extensive and profitable manner.

DR. CULLEN'S publications were few in number compared with his difcoveries. They confift of his Elements of phyfiology, his Nofologia Methodica, his First Lines of the Practice of Physic, an Essay upon the cold produced by Evaporation, published in the second volume of the Physical and Literary Essays of Edinburgh, a Letter to Lord Cathcart upon the method of recovering perfons supposed to be dead from drowning, and a system of the Materia Medica. These are all the works which bear his name; but the fruits of his inquiries are to be found in most of the medical publications that have appeared in Great-Britain within the last thirty years. Many of the theses, published in Edinburgh during his life, were the vehicles of his opinions or practice in medicine: and few of them contained an important or useful discovery, which was not derived from hints thrown out in his lectures.

As a TEACHER of medicine, Dr. Cullen poffeffed many peculiar talents. He mingled the most agreeable eloquence with the most profound disquisitions. He appeared to *lighten* upon every subject upon which he spoke. His language was simple, and his arrangement methodical, by which means he was always intelligible. From the moment he ascended his chair, he commanded the most respectful attention from his pupils, informuch that I never saw one of them discover a sign of impatience during the time of any of his lectures.

In the inveftigation of truth, he fometimes ventured into the regions of conjecture. His imagination was an hot-bed of hypothefes, which led him to conftant obfervation and experiment. These often proved the feeds of subsequent discoveries. It was thus Sir Ifaae Newton founded an empire in science; for most of his discoveries were the result of preconceived hypothes. In delivering new opinions, Dr. Cuilen preferved the strictes integrity. I have known him more than once, result the opnions which he had taught the preceding year, even before the fallacy of them had

been suspected by any of his pupils. Such instances of candor often pass with the vulgar for instability; but they are the truest characteristics of a great mind. To be unchangeable, supposes perpetual error, or a perception of truth without the use of reason; but this sublime act of intuition belongs only to the Deity.

There was no tincture of credulity in the mind of Dr. Cullen. He taught his pupils the necessity of acquiring " the flow confenting academic doubt." . I mention these words of the poet with peculiar pleafure, as I find them in my notes of one of his lectnres, in which he has delivered rules for judging of the truth of things related as facts; for he frequently remarked that there were ten false facts (if the expreffion can be allowed) to one false opinion in medicine. His Materia Medica abounds with proofs of the truth of this part of his character. With how much caution does he admit the efficacy of medicines, as related in books, or as suggested by his own experience. Who could have expected to have found fo much modesty in the writings of a physician in the 77th year of his age? But let it be remembered, that this physician was Dr. Cullen; and that he always preferred utility to novelty, and loved truth, more than fame.

He took great pains to deliver his pupils from the undue influence which antiquity and great names are apt to have upon the human mind. He de-

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ftroyed the fuperflitious veneration which had been paid for many ages to the names of Hippocrates, Galan, and other ancient authors, and infpired his pupils with a juft effimate of the writings of modern phylicians. His conflunt aim was to produce in their minds a change from a pafilve to an active flate; and to force upon them fuch habits of thinking and obfervation, as fhould enable them to inflruct themfelves.

As he admitted no truth without examination, fo he fubmitted to no cuftom in propagating it that was not reasonable. He had a principal share in the merit of delivering medicine from the fetters of the Latin, and introducing the English language, as the vehicle of public infiruction in the university of Edinburgh. Much of the fuccess of the revolution he effected in medicine, I believe, may be afcribed to this circumstance. Perhaps the many improvements which have lately been made in medicine in the British dominions, may likewife be afcribed to the prefent fashionable custom of communicating medical knowledge in the English language. By this means, our fcience has excited the notice and inquiries of ingenious and observing men in all professions, and thereby a kind of galaxy has been created in the hemisphere of medicine. By assuming an English dress, it has moreover been prepared more eafily to affociate with other sciences; from each of which it has received ailistance and support.

In his intercourse with his pupils Dr. Cullen was truly kind and affectionate. Never have I known a man who possessed in a higher degree those qualities which seize upon every affection of the heart. He knew the rare and happy arts, as circumstances required, of being affable without being fociable; fociable without being familiar; and familiar, without lofing a particle of respect. Such was the interest he took in the health, studies, and future establishment of all his pupils, that each of them believed that he possessed a pre-eminence in his friendship; while the equal diffusion of his kind offices proved that he was the common friend and father of them all. Sometimes he would lay alide the diftance, without lesiening the dignity of the professor, and mix with his pupils at his table upon terms of the most endearing equality. Upon these occasions his focial affections feemed to have an influence upon his mind. Science, fentiment, and convivial humor, appeared for hours together to strive which should predominate in his conversation. I appeal to you, gentlemen, who have fhared in the pleasure which I have described, for the justice of the picture which I have drawn of him at his hospitable table. You will recollect, with me how agreeably he accommodated himself to our d'ifferent capacities and tempers; how kindly he diffipated our youthful blushes, by inviting us to ask him questions; and how much he taught us, by his inquin es, of the nature of the foil, climate, products, and diseases of even our own country.

From the hiftory that has been given of Dr. Cullen, we shall not be furprised at the reputation which he gave to the university of Edinburgh, for upwards of thirty years. The city of Edinburgh during his life became the very atmosphere of medicine. But let me not here be unjust to the merits of his illustrious colleagues. The names of Whytt, Rutherford, the Monroes, Black, the Gregories, Hope, and Home, will always be dear to the lovers of medical fcience. May every healing plant bloom upon the graves of those of them who are departed ! and may those who have furvived him, together with their new affociate, the learned and excellent Dr. Duncan, long continue to maintain the honor of that justly celebrated school of medicine !

It remains now that I add a fhort account of Dr. Cullen's conduct as a physician and a man.

In his attendance upon his patients, he made their health his first object, and thereby confirmed a line between the mechanical and liberal professions; for while wealth is purfued by the former, as the end of labour, it should be left by the latter, to follow the more noble exertions of the mind. So gentle and sympathizing was Dr. Cullen's manner in a sick room, that pain and distress feemed to be sufpended in his prefence. Hope followed his footsteps, and death appeared frequently to drop his commission in a combat with his skill. He was compassionate and charitable to the poor; and from his pupils, who confulted him in fickness, he constantly refused to receive any pecuniary fatisfaction for his services.

In his intercourfe with the world he exhibited the manners of a well-bred gentleman. He exercifed upon all occafions the agreeable art, in which true politenefs is faid to confift, of fpeaking with civility, and liftening with attention to every body. His converfation was at all times animated, agreeable, and inftructing. Few perfons went into his company without learning fomething; and even a common thought, by paffing through his mind, received an impreffion, which made it ever afterwards worthy of being preferved.

He was a strict œconomist of time. He feldom went out of his house in his carriage, or a sedan chair, without a book in his hand; and he once told me, that he frequently employed one of his sons to read to him after he went to bed, that he might not lose that portion of time which passes between lying down, and falling assess.

He was remarkably punctual to all his profession engagements. He appeared to confider time as a species of property, which no man had a right to take from another without his confent.

It was by means of his occonomy and punctuality in the use of time, that he accomplished so much in his profession. I have read of some men who have spent more time in their closets, and of others who have done more bulinels; but I have never read, nor heard of a man, who mingled more fludy and bulinels together. He lived by rule, without fubjecting himfelf to the flavery of forms. He was always employed, but never in a hurry; and amidft the numerous and complicated avocations of fludy and bulinels, he appeared to enjoy the pleafure of fociety, as if company-keeping and conversation were the only bulinels of his life.

I fhall mention but one more trait in the character of Dr. Cullen, and that is, that he was diffinguished by no one fingularity of behaviourfrom other men. It is true he ftood alone; but this fingularity was occasioned, not by his quitting the fociety of his fellow-men by walking on their left, or right fide, but by his walking before them. Eccentricities in behaviour are the offfpring of a lively fancy only, but order is infeparably connected with real genius. The actions of the former may be compared to the crooked flash of diftant lightning, while the latter refembles in its movements the iteady revolutions of the heavenly bodies.

In reviewing the character which has been given of Dr. Cullen, I am forced to make a flort digreffion, while I do homage to the profession of physic by a fingle remark. So great are the bleffings which mankind derive from if, that if every other argument failed to prove the administration of a previdence in human affairs, the profession of medicine alone would be fufficient for that purpose. Who can think of the talents, virtues, and fervices of Dr. Cullen, without be-

lieving that the Creator of the world delights in the happiness of his creatures, and that his tender mercies are over all his works!

For the information of fuch of the members of our college as have not feen Dr. Cullen, it may not be improper to add the follo wing defcription of his perfon. He was tall, flender, and had a ftoop in his fhoulders; his face was long; his under lip protruded a little beyond the upper; his nofe was large, and inclined to a point downwards; his eye, which was of a blue color, was penetrating, but foft; and over his whole face was diffufed an air of mildnefs and thought, which was ftrongly characteriftic of the conftant temper and operations of his mind.

It pleafed God to prolong his life to a good old age. He lived near 78 years. He lived to demonstrate how much the duration of all the faculties of the mind depends upon their constant exercise. He lived to teach his brethren by his example, that the obligations to acquire and communicate knowledge, should cease only with health and life; and lastly, he lived to reap the fruits of his labors in the most extensive fame; for not only his pupils, and his works, had conveyed his reputation; but canvas, paper, and clay, had borne even the image of his perfon to every quarter of the giobe.

The public papers, as well as private letters, inform us, that he furvived his usefulness but a few months. He refigned his protofforship in the autumn of 1789, on account of bodily weaknefs, and died in the month of January of the prefent year; a year fatal to the pride of man; for this year Franklin and Howard, as well as Cullen, have mingled with the dust. During the interval between his refignation and his death he received the most affectionate marks of public and private respect. The city of Edinburgh voted him their thanks, and prefented him with a piece of plate. This instance of public gratitude deserves our particular attention, as it is more common for cities to treat their eminent literary characters with neglect during their lives, and centuries afterwards to contend for the honor of having given them birth. The different medical focieties of Edinburgh followed him to his chamber with addreffes full of gratitude and affection. In mentioning these facts, I am led to contemplate the venerable subject of our praises in a situation truly solemn and inte_ refting. How pregnant with instruction is the deathbed of a physician, who has spent a long life in extenfive and successful practice! If the forrows we have relieved are the furest support in our own, how great must have been the confolation which Dr. Cullen derived, in his last hours, from a review of his active and useful life! How many fathers and mothers, husbands and wives, brothers and fifters, whofe tears he had wiped away by averting the stroke of death from the objects of their affections, must have prefented themfelves to his imagination, and foothed his foul with grateful prayers for his eternal welfare! But the retrof. post of the fervices he had rendered to his fellow-creatures, was not confined to the limits of his extensive business in the city of Edinburgh. While the illustrious actions of most men may be viewed with a naked eye, the atchievements of Dr. Cullen in the distant regions of humanity and science, can only be perceived by the help of a telescope. Let us apply this inftrument to discover his exploits of beneficence in every quarter He had filled the capitals, and most of of the world. the towns of Great Britain and Ireland with eminent physicians. Many of his pupils had arrived at the first honors in their profession in the principal cities on the continent of Europe. Many of them had extended the bleffings of his improvements in the principles and practice of medicine, to every British settlement in the East and West Indies, and to every free state in America. But the fum of his usefulnefs did not end here. He had taught the different professions in the University of Pennfylvania, the art of teaching others the most fuccefsful methods of curing difeases, and thereby he had conveyed the benefits of his difcoveries into every part of the United States. How great was the mass of fuch accumulated beneficence ! and how fublime must have been the pleafure which the review of it created in his mind! Had it been possible for the merit of fuch extenfive and complicated fervices to mankind to have refcued one mortal from the grave, Dr. Cullen had never di-But the decree of death is universal, and even the ed. healing art, is finally of no effect in faving the lives of those who have exercised it with the most success in faving the lives of others.

DR. CULLEN is now no more. What a blank has been produced by his death in the great volume of Science! Behold! The genius of humanity weeping at his feet, while the genius of medicine lifts up the key, which fell from his hand with his laft breath, and with inexpreffible concern, cries out, "to whom fhall I give this inftrument? Who now will unlock for me the treafures of univerfal nature?"

Venerable Shade, adieu ! What though thy American pupils were denied the melancholy pleafure of following thee from thy Profeffor's-chair to thy fick bed, with their effusions of gratitude, and praife ! What though we did not fhare in the grief of thy funeral obfequies, and though we fhall never bedew with our tears the fplendid monument which thy affectionate and grateful British pupils have decreed for thee in the metropolis of thy native country ; yet the remembrance of thy talents and virtues, shall be preferved in each of our bosons, and never shall we return in triumph from beholding the efficacy of medicine in curing a difease, without feeling our obligations for the instructions we have derived from thee !

I repeat it again, Dr. Cullen is now no more— No more, I mean, a pillar and ornament of an ancient feat of fcience—no more, the delight and admiration of his pupils—no more the luminary of medicine to half the globe—no more the friend and benefactor of mankind.—But I would as from believe that our folar fystem was created on y to amufe and perish like a rocket, as believe that a mind endowed with fuch immense powers of action and contemplation had ceased to exist. Reason bids us hope that he will yet *live*—And Revelation enables us to fay, with certainty and confidence, that he shall again *live*.—Fain would I list the curtain which separates eternity from time, and inquire— But it is not for mortals to pry into the secrets of the invisible world.

Such was the man whole memory we have endeavoured to celebrate. He lived for our benefit. It remains only that we improve the event of his death in fuch a manner, that he may die for our benefit likewife. For this purpose I shall finish our Eulogium with the following observations.

I. Let us learn from the character of Dr. Cullen duly to estimate our profession. While Astronomy claims a Newton, and Electricity a Franklin, Medicine has been equally honoured by having employed the genius of a Cullen. Whenever therefore we feel ourfelves disposed to relax in our studies, to use our profession for felfish purposes, or to neglect the poor, let us recollect how much we lessen the dignity which Dr. Cullen has conferred upon our profession.

II. By the death of Dr. Cullen the republic of medicine has loft one of its most distinguished and useful members. It is incumbent upon us therefore to double our diligence in order to fupply the lofs of our indefatigable fellow-citizen. That phyfician has lived to little purpose, who does not leave his profession in a more improved state than he found Let us remember, that our obligations to add it. something to the capital of medical knowledge, are equally binding with our obligations to practife the virtues of integrity and humanity in our intercourse with our patients. Let no useful fact therefore, however inconfiderable it may appear, be kept back from the public eye; for there are mites in fcience as well as in charity, and the remote consequences of both are often alike important and Facts are the morality of medicine. beneficial. They are the fame in all ages and in all countries. They have preferved the works of the immortal Sydenham from being destroyed by their mixture with his abfurd theories; and under all the revolutions in fystems that will probably take place hereafter, the facts which are contained in Dr. Cullen's works, will constitute the best security for their fafe and grateful reception by future ages.

III. Human nature is ever prone to extremes. While we celebrate the praises of Dr. Cullen, let us take care left we check a spirit of free inquiry, by too

great a regard for his authority in medicine. I well remember an observation suited to our present purpose which he delivered in his introduction to a course of lectures on the Institutes of Medicine in the year 1766. After speaking of the long continued and extensive empire of Galen in the schools of physic, he faid, " It " is a great difadvantage to any feience to have been " improved by a great man. His authority imposes " indolence, timidity, or idolatry upon all who come " after him."-Let us avoid these evils in our veneration for Dr. Cullen. To believe in great men, is often as great an obstacle to the progress of knowledge, as to believe in witches and conjurers. It is the image worship of science; for error is as much an attribute of man, as the defire of happines; and I think I have observed, that the errors of great men partake of the dimensions of their minds, and are often of a greater magnitude than the errors of men of inferior understanding. Dr. Brown has proved the imperfection of human genius, by extending fome parts of Dr. Cullen's fystem of physic, and by correcting some of its defects. But he has left much to be done by his fucceffors. He has even bequeathed to them the labor of removing the errors he has introduced into medicine by his neglect of an important principle in the animal œconomy, and by his ignorance of the histories and symptoms of diseases. Perhaps no system of medicine can be perfect, while there exists a single disease which we do not know, or cannot cure. If this be true, then a

complete system of medicine cannot be formed, till America has furnished descriptions and cures of all her peculiar diseases. The United States have improved the science of civil government. The freedom of our constitutions, by imparting vigor and independence to the mind, is favourable to bold and original thinking upon all subjects. Let us avail ourselves therefore of this political aid to our refearches, and endeavour to obtain histories and cures of all our difeafes, that we may thereby contribute our part towards the formation of a complete fystem of medicine. As a religion of fome kind is abfolutely necessary to promote morals; so systems of medicine of some kind, are equally neceffary to produce a regular mode of practice. They are not only necessary, but unavoidable in medicine; for no phyfician, nay more, no empire, practices without them.

The prefent is an age of great improvement. While the application of reafon to the feiences of government and religion, is daily meliorating the condition of mankind, it is agreeable to obferve the influence of medicine, in leffening human mifery, by abating the mortality or violence of many difeafes. The decrees of heaven appear to be fulfilling by natural means; and if no ancient prophecies had declared it, the late numerous difcoveries in medicine would authorize us to fay, that the time is approaching, when not only tyranny, difcord and fuperfittion fhall ceafe from our world, but when difeafes fhall be unknown, or ceafe to be incurable; and when old age shall be the only outlet of human life,

"Thus heavenward all things tend."

In that glovious æra, every discovery in medicine shall meet with its full reward; and the more abundant gratitude of posterity to the name of Dr. Cullen; shall then bury in oblivion the seeble attempt of this day to comply with your vote to perpetuate his fame.

AN EULOGIUM UPON DAVID RITTENHOUSE, LATE PRESIDENT OF THE AMERICAN PHILOSOPHICAL SOCIETY; DELIVERED RE-FORE THE SOCIETY IN THE FIRST PRESENTERIAN CHURCH IN HIGH-STREET, PHILADELPHIA, ON THE 17TH PECEMBER, 1796, AGREEABLY TO APPOINTMENT, AND PUBLISHED AT THE REQUEST OF THE SOCIETY.

Gentlemen of the Philosophical Society. Friends and Colleagues,

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of the world, unite with us in lamenting our common lofs—for he belonged to the whole human race.

By your vote to perpetuate the memory of this great and good man, you have made a laudable attempt to refcue philofophers from their humble rank in the hiftory of mankind. It is to them we owe our knowledge and poffettion of most of the neceffaries and conveniences of life. To procure these bleffings for us, "they trim their midnight lamp, and hang o'er the fickly taper." For us, they traverse distant regions, expose themfelves to the inclemencies of the weather, mingle with favages and beasts of prey, and in some instances, evince their love of science and humanity by the factifice of their lives.

The amiable philofopher whofe talents and virtues are to be the fubject of the following culogium, is entitled to an uncommon portion of our gratitude and praife. He acquired his knowledge at the expense of uncommon exertions, he performed fervices of uncommon difficulty, and finally he impaired his health, and probably flortened his life, by the ardor of his fludies and labors for the benefit of mankind.

In attempting to difcharge the difficult and painful duty you have affigned to me, it will be necessary to give a fhort account of the life of Mr. Rittenhouse, inasmuch as several of the most interesting parts of his character are intimately connected with it.

The village of Germantown in the neighbourhood of this city, had the honor of giving birth to this diftinguished philosopher on the 8th day of April, in the His ancestors inigrated from Holland year 1732. about the beginning of the present century. They were distinguished, together with his parents, for probity, industry, and simple manners. It is from fources thus pure and retired, that those talents and virtues have been chiefly derived, which have in all ages enlightened the world. They prove by their humble origin, that the Supreme Being has not furrendered up the direction of human affairs to the advantages acquired by accident or vice, and they bear a constant and faithful testimony of his impartial goodness, by their necessary and regular influence in equalizing the condition of mankind. This is the divine order of things, and every attempt to invert it, is a weak and unavailing effort to wreft the government of the world from the hands of God.

The early part of the life of Mr. Rittenhoufe was fpent in agricultural employments under the eye of his father, in the county of Montgomery, twenty miles from Philadelphia, to which place he removed during the childhood of his Son. It was at this place his peculiar genius first discovered itself. His plough, the fences, and even the stones of the field in which he worked, were frequently marked with figures which denoted a talent for mathematical studies. Upon

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finding that the native delicacy of his conftitution unfitted him for the labors of husbandry, his parents confented to his learning the trade of a clock and mathematical inftrument maker. In acquiring the knowledge of these useful arts, he was his own instructor.-They afforded him great delight, inafmuch as they favoured his disposition to inquire into the principles of natural philosophy.-Constant employment of any kind, even in the practice of the mechanical arts, has been found, in many inftances, to administer vigor to human genius. Franklin studied the laws of nature, while he handled his printing types. The father of Rousseau, a jeweller at Geneva, became acquainted with the principles of national jurifprudence, by liftening to his fon while he read to him in his fhop, the works of Grotius and Puffendorf; and Herschel conceived the great idea of a new planet, while he exercifed the humble office of a mulician to a marching regiment.

It was during the refidence of our ingenious philofopher with his father in the country, that he made himfelf mafter of Sir Ifaac Newton's Principia, which he read in the Englifh translation of Mr. Mott. It was here likewife he became acquainted with the fcience of Fluxions, of which fublime invention he believed himfelf for a while to be the author, nor did he know for fome years afterwards, that a conteft had been carried on between Sir Ifaac Newton and Leibnitz, for the honor of that great and ufeful difcovery. What

a mind was here !_____Without literary friends or fociety, and with but two or three books, he became, before he had reached his four and twentieth year, the rival of the two greatest mathematicians in Europe!

It was in this retired fituation, and while employed in working at his trade, that he planned and executed an orrery, in which he reprefented the revolutions of the heavenly bodies in a manner more extensive and complete, than had been done by any former aftronomers. A correct defcription of this orrery drawn up by the Rev. Dr. Smith, is published in the first volume of our Transactions. This master-piece of ingenious mechanism was purchased by the college of New-Jersey. A second was made by him, after the same model, for the use of the college of Philadelphia. It now forms part of the philosophical apparatus of the University of Pennsylvania, where it has for many years commanded the admiration of the ingenious and the learned, from every part of the world.

The reputation he derived from the conftruction of this orrery, as well as his general character for mathematical knowledge, attracted the notice of his fellow-citizens in Pennfylvania, and in feveral of the neighbouring ftates, but the difcovery of his uncommon merit belonged chiefly to his brother-in-law, the Rev. Mr. Barton, Dr. Smith, and the late Mr. John Lukens, an ingenious mathematician of this city. Thefe gentlemen fully appreciated his talents, and united in

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urging him to remove to Philadelphia, in order to enlarge his opportunities of improvement and ufefulnefs. He yielded with reluctance to their advice, and exchanged his beloved retirement in the country for this city, in the year 1770. Here he continued for feveral years, to follow his occupation of a clock and mathematical inftrument maker. He excelled in both branches of that bufinefs. His mathematical inftruments have been efteemed by good judges to be fuperior in accuracy and workmanfhip to any of the fame kind that have been imported from Europe.

About the time he fettled in Philadelphia, he became a member of our Society. His first communication to the Society was a calculation of the transit of Venus as it was to happen on the 3d of June, 1769, in 40° north latitude, and 5 hours west longitude from Greenwich. He was one of a committee appointed by the Society to obfereve in the township of Norriton, this rare occurence in the revolution, of that planet, and bore an active part in the preparations which were made for that purpofe. Of this Dr. Smith who was likewise of the committee, has left an Lonourable record in the hiftory of that event which is publifted in the first volume of the transactions of our Society. " As Mr. Rittenhoufe's dwelling (fays the Doctor) is about twenty miles north weft from Philadelphia; our other engagements did not permit Mr. Lukens or myfelf to pay much attention to the necessary preparations; but we knew that we had introfied them

to a gentleman on the fpot [meaning Mr. Rittenhouse] who had, joined to a complete fkill in mechanics, fo extensive an astronomical, and mathematical knowledge, that the use, management and even construction of the apparatus, were perfectly familiar to him. The laudable pains he had taken in these material articles will best appear from the work itself, which he hath committed into my hands, with a modest introduction, giving me a liberty with them, which his own accuracy, taste and abilities leave no room to exercise.

We are naturally led here to take a view of our philosopher with his affociates in their preparations to observe a phænomenon which had never been scen but twice before by any inhabitant of our earth, which would never be feen again by any perfon then living, and on which depended very, important aftronomical consequences. The night before the long expected day, was probably passed in a degree of folicitude which precluded fleep. How great must have been their joy when they beheld the morning fun, " and the whole horizon without a cloud ;" for fuch is the defcription of the day given by Mr. Rittenhouse in the report referred to by Dr. Smith. In penfive filence, and trembling anxiety, they waited for the predicted moment of observation; it came, and brought with it all that had been wished for and expected by those who faw it. In our philosoper, it excited in the instant of one of the

contacts of the planet with the fun, an emotion of delight to exquisite and powerful, as to induce fainting. This will readily be believed by those who have known the extent of that pleafure which attends the discovery, or first perception of truth. Soon after this event, we find him acting as one of a committee appointed to observe the transit of Mercury on the 9th of November in the fame year. This was likewife done at Norriton, An account of it was drawn up, and published at the request of the committee by Dr. Smith. A minute hiftory of the whole of these events, in which Mr. Rittenhouse continued to act a diftinguished part, is given in our transacti-It was received with great fatisfaction by the ons. astronomers of Europe, and contributed much to raife the character of our then infant country for astronomical knowledge.

In the year 1775, he was appointed to compose and deliver the annual oration before our fociety. The fubject of it, was the hiftory of aftronomy. The language of this cration is fimple, but the fentiments contained in it are ingenious, original, and in fome inftances fublime. It was delivered in a feeble voice, and without any of the advantages of oratory, but it commanded notwithstanding, the most profound attention, and was followed by universal admiration and applause from a crouded and respectable audience.

From the contents of this oration, it appears that Aftronomy was the favourite object of his fludics. Attempts have been made to depreciate this branch. of natural philosophy, by denying its utility, and application to human affairs.—The opinion is an unjust one, and as it lends to convey a limited idea of the talents of Mr. Rittenhouse, I hope I shall be excused in saying a few words in favour of this science.

It is to aftronomy we are indebted for our knowledge of navigation, by which means the different parts of our globe have been difcovered, and afterwards cemented together by the mutual wants and obligations of commerce.

It was aftronomy that taught mankind the art of predicting and explaining eclipfes of the Sun and Moon, and thereby delivered them from the fuperfitition which in the early ages of the world; was connected with those phænomena of nature.

We are taught by aftronomy to correct our ideas of the visible heavens, and thus by discovering the fallacy of the simple evidence of our senses, to call to their aid, the use of our reason, in deciding upon all material objects of human knowledge.

Aftronomy delivers the mind from a groveling attachment to the purfuits and pleafures of this world. "Take the mifer (fays our philofopher in his cration) from the earth, if it be possible difengage him —he whose nightly reft has been long broken by the loss of a fingle foot of it, useless perhaps to him; and remove him to the planet Mars, one of the least .diftant from us—Perfuade the ambitious monarch to accompany him, who has facrificed the lives of thoufands of his fubjects to an imaginary property in certain fmall portions of the earth, and point out this earth to them, with all its kingdoms and wealth, a glittering ftar, clofe by the moon, the latter fearce visible, and the former, less bright than our evening ftar.—They would turn away their disgusted fight from it, not thinking it worth their smalless attention, and feek for consolation, in the gloomy regions of Mars.".

Once more—the fludy of aftronomy has the most friendly influence upon morals, and religion. "Yes," (fays our philosopher in another part of his oration) "the direct tendency of this science is to dilate the heart with universal benevolence, and to enlarge its views. It flatters no princely vice, nor national depravity. It encourages not the libertine by relaxing any of the precepts of morality, nor does it attempt to undermine the foundations of religion. It denies none of those attributes, which the wifest and best of mankind have in all ages afcribed to the Deity. Nor does it degrade the human mind from that dignity which is ever necessary to make it contemplate itfelf with complacency. None of these things does aftronomy pretend to, and if these things merit the name of philosophy, and the encouragement of a people, then let scepticism flourish, and astronomy lie neglected.-Let the names of Barkley and Hume

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become immortal, and that of Newton be loft in ublivion."---

The following is a lift of fuch of Mr. Rittenhouse's other publications as are contained in the three volumes of our transactions.

Observations of the comet which appeared in June and July 1770, with the elements of its motion and the trajectory of its path, in a letter to Dr. William Smith.

An eafy method of deducing the true time of the fun's passing the meridian, by means of a clock, from a comparison of four equal attitudes, observed on two succeeding days, without the help of the equation tables, communicated by Dr. William Smith.

An explanation of an opticle deception, namely, that the furfaces of bodies viewed through the double microfcope, fometimes appear to be reverfed, that is, those parts which are elevated feem depressed, and the contrary.

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An account of a remarkable meteor observed at Philadelphia on the 31st of October, 1775, with some conjectures relative to the theory of meteors, in answer to a letter from John Page, Esq. giving an account of the same meteor seen in many distant places in Virginia. Conjectures, corroborated by experiments, relative to a new theory of magnetism; in a letter to John Page, Efq. of Virginia.

A new method of placing a meridian mark for a transit instrument within a few feet of the observatory, fo as to have all the advantages of one placed at a great diffance; in-a letter to the Rev. Dr. John Ewing.

Observations on a comet discovered in the month of January 1784.

An explanation of a curious optical phænomenon, namely, if a canale or other luminous body be viewed through a filk umbrella, handkerchief or the like, the luminous body will appear to be doubled; in a letter to Francis Hopkinfon, Efq.

A feries of observations made at fundry times in the years 1784, 85, and 86 on the new planet, or Georgium Sidus, also an observation of the transit of Mercury over the Sun's disk on the 12th of November 1782.

An account of three houses in Philadelphia struck with lightning on the 7th of June 1789.

An account of the effects of a stroke of lightning upon a house furnished with two metallic conductors on the 17th of August, 1789; in a letter to Mr. Robert Patterson.

Aftronomical observations made at Philadelphia, containing an account of the eclipse of the Moon on the 2d of November 1789.

An account of the transit of Mercury over the Sun's difk, on the 5th of November 1789.

An account of the eclipfe of the Sun, on the 6th. of November 1790, with an account of corresponding observations, made at the university of William and Mary, in Virginia, by Dr. J. Madison, and at Washington college, in Maryland, by the Rev. Dr. Smith.

Short, and elegant theorems for finding the fum of the feveral powers of the lines, either to a radius of unity, or any other; in a letter to Mr. Robert Paterfon.

An account of a comet discovered in the month of January 1793; in a letter to Mr. Robert Patterson.

Befides these publications, our fociety is in poffession of the following communications from Mr. Rittenhouse, which are now in the press and will be speedily published in the fourth volume of our transactions.

A method of determining the true plane of a planet in an eliptical form by converging feries, directly from the mean anomaly.

A new and easy method of calculating logarihims; -in a letter to Mr. Robert Patterson, A description of an improvement on pendulum clocks, by which the error arising from the different density, or resistance of the medium in which the pendulum vibrates, is effectually obviated.

Lastly, experiments on the expansion of wood by neat.

Talents fo fplendid, and knowledge fo practical in mathematicks, are like mines of precious metals. They become public property by univerfal confent. The State of Pennfylvania was not infenfible of the wealth fhe poffeffed in the mind of Mr. Rittenhoufe. She claimed him as her own, and employed him in bufinefs of the most important nature.

In the year 1779 he was appointed by the legiflature of Pennfylvania, one of the commissioners for adjusting a territorial dispute between Pennfylvania and Virginia, and to his talents, moderation and firmness, were ascribed in a great degree, the satiffactory termination, of that once alarming controversy in the year 1785.

In 1784 he affifted in determining the length of five degrees of longitude from a point on the Delaware, in order to fix the western limits of Pennfylvania.

In 1786, he was employed in fixing the northern line which divides Pennfylvania from New-Yerk.

But the application of his talents and knowledge to the fettlement of territorial difputes, was not confined to his native ftate. In the year 1769, he was employed in fettling the limits between New-Jerfey and New-York, and in 1787 he was called upon to affift in fixing the boundary line between the States of Maffachufetts and New-York. This laft bufinefs which was executed with his ufual precifion and integrity, was his farewel peace offering to the union and happinefs of his country.

In his excursions through the wilderness, he carried with him his habits of inquiry and observation. Nothing in our mountains, foils, rivers, and fprings escaped his notice. It is to be lamented that his private letters, and the memories of his friends, are the only records of what he collected upon these occasi-Philosopher, or naturalist, whosoever thou art ! ons. that ihalt hereafter traverse the unfrequented woods of our flate, forget not to respect the paths, first marked by the feet of this ingenious, and faithful fervant of the public. Honour the fountains confectated to fcience by his skilful hand, and inhale with double pleasure the pure atmosphere of the mountains, on which he renewed his acquaintance with the canopy of heaven, after passing whole weeks in forests so shady, as to conceal from him the rays of the fun. And citizens of Pennfylvania, friends and patrons of literature, be grateful for his fervices. Let the remembrance of them be dear to the present generation, and let a part

of the state distinguished in a more especial manner for its resources in natural knowledge, bear his name with honor to the latest posterity.

In the year 1791, he was chosen successor to Dr. Franklin in the chair of our fociety. In this elevated station, the highest that philosophy can confer in our country, his conduct was marked by its usual line of propriety and dignity. Never did the artificial pomp of station command half the respect, which followed his unaffuming manners in the difcharge of the public duties of this office. You will often recollect, gentlemen, with a mixture of pleafure and pain, the delightful evenings you paffed in the fociety, every time he prefided in your meetings. They were uniformly characterized by ardor in the purfuits of science, urbanity and brotherly kindness. His attachment to the interests of the society was evinced soon after he accepted of the Prefident's chair, by a donation of three hundred pounds.

But his talents and knowledge were not limited to mathematical or material fubjects; his mind was a repository of the knowledge of all ages and countries. He had early and deeply studied most of the different systems of theology. He was well acquainted with practical metaphysicks. In reading travels he took great delight. From them, he drew a large fund of his knowledge of the natural history of our globe. He possible talents for music and poetry, but the more ferious and necessary purfuits of his life, prevented his devoting much time to the cultivation of them. He read the English poets with great pleasure. The muse of Thomson charmed him most. He admired his elegant combination of philosophy and poetry However opposed these studies may appear, they alike derive their perfection from extensive and accurate observations of the works of nature. He was intimately acquainted with the French, German and Dutch languages, the two former of which he acquired without the assistance of a master. They ferved the valuable purpose of conveying to him the discoveries of foreign nations, and thereby enabled him to profecute his studies with more advantage, in his native language.

In speaking of Mr. Rittenhouse, it has been common to lament his want of what is called a liberal education. -Were education what it should be, in our public feminaries, this would have been a misfortune, but conducted as it is at prefent, agreeably to the fystems adopted in Europe in the fifteenth century, I am difposed to believe that his extensive knowledge, and splendid character are to be afcribed chiefly to his having escaped the pernicious influence of monkish learning upon his mind in early life. Had the usual forms of a public education in the United States been imposed upon him; instead of revolving through life in a planetary orbit, he would probably have confumed the force of his genius by fluttering around the blaze of an evening taper. Ritttenhouse the philosopher, and one of the luminaries of the eighteenth century, might have spent

his hours of study in composing fyllogisms, or in meafuring the feet of Greek and Latin poetry.

It will be honorable to the citizens of the United States, to add. that they were not infenfible of the merit of our philofopher. Inventions and improvements in every art and fcience, were frequently fubmitted to his examination, and were afterwards patronifed by the public, according as they were approved of by him. Wherever he went, he met with public refpect, and private attentions. But his reputation was not confined to his native country. His name was known and admired in every region of the earth, where fcience and genius are cultivated and refpected.*

'Such were the talents and knowledge, and fuch the fame, of our departed Prefident! His virtues now demand our tribute of praife. —And here, I am iefs at a lofs to know what to fay, than what to leave unfaid. We have hitherto beheld him as a philofopher, foaring like the eagle, until our eyes have been dazzled by his near approaches to the fun. We shall now contemplate him at a lefs distance, and behold him in the familiar character of a man, fulfilling his various duties, in their utmost extent. If any thing has been faid of his

* The degree of master of Arts was conferred upon him by the College of Philadelphia, in 1768. The same degree was conferred upon him by the College of William and Mary, in Virginia, in 1784. In the year 1789, he received the degree of Doctor of Laws from the College of New-Jersey. He was elected a Member of the American Academy of Arts and Sciences at Boston in 1782, and of the Royal Society in London in 1795.

talents and knowledge that has excited attention, or kindled defires in the younger members of our fociety, to pursue him in his path of honor, let me request them not to forfake me here. Come, and learn by his example, to be good, as well as great.----His virtues furnish the most shining models for your imitation, for they were never obscured in any situation or stage of his life, by a fingle cloud of weakness or vice. As the fource of these virtues, whether of a public or private nature, I shall first mention his exalted sense of moral obligation, founded upon the revelation of the perfections of the Supreme Being. This appears from many passages in his oration, and from his private letters to his friends. In his oration we find the following pious fentiment. "Should it pleafe that Almighty Power who hath placed us in a world in which we are only permitted 4 to look about us and to die,' to indulge us with existence throughout that half of eternity which still remains unspent, and to conduct us through the feveral stages of his works, here (meaning in the study of astronomy) is ample provision made for employing . every faculty of the mind, even allowing its powers to be enlarged through an endless repetition of ages. Let us not complain of the vanity of this world, and that there is nothing in it capable of fatisfying us. Happy in those wants-happy in those desires, forever in fuccession to be gratified-happy in a continual approach to the Deity."

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AN EULOGIUM UPON

" I must confess that I am not one of those fanguine fpirits who feem to think that when the withered hand of death has drawn up the curtain of eternity, all distance between the creature and the Creator, and between finite and infinite, will be annihilated. Every enlargement of our faculties—every new happiness conferred upon us, every step we advance towards the Divinity, will very probably render us more and more fensible of his inexhaustible stores of communicable blifs, and of his inaccessible perfections."

There appears to be a natural connection between a knowledge of the works of nature and just ideas of the divine perfections; and if philosophers have not in all ages been equally devout with our Prefident, it becomes us to acquire how far the beneficial influence of philosophy 'upon religion, may have been prevented by their minds being pre-occupied in early life with the fictions of ancient poets, and the vices of the heathen gods. It remains yet to be determined, whether all the moral as well as natural attributes of the Deity may not be difcovered in the form, and œconomy of the material world, and whether that righteoufnefs which descended from heaven near eighteen hundred years ago, may not wait for philosophical truth to spring up from the carth, in order by uniting with it, to command universal belief and obedience. This opinion, as far as it relates to one of the moral attributes of the Deity, feems to have been admitted by our philosopher in the following elegant and pious extract from a letter

to one of his friends " give me leave (fays he) to mention two or three proofs of infinite goodness in the works of creation. 'The first is, posselling goodness in ourfelves. Now it is inconfistent with all just reasoning to suppose, that there is any thing good. lovely or praise-worthy in us, which is not possessed in an infinitely higher degree by that Being who first called us into existence. In the next place I reckon the exquisite and innocent delight that many things around us are calculated to afford us. In this light the beauty and fragrance of a single rose is a better argument for divine goodnefs than a luxuriant field of wheat. For if we can suppose that we were created by a malevolent Being with a defign to torment us for his amufement, he must have furnished us with the means of sublistence, and either have made our condition tolerable, or not have left the means of quitting it at pleasure, in our own power. Such being my opinions, you will not wonder at my fondness for what Mr. Addison calls 'the pleafures of the imagination.' They are all to me, so many demonstrations of infinite goodness.

If fuch be the pious fruits of an attentive examination of the works of the Creator, ceafe ye ministers of the gospel to defeat the design of your benevolent labors, by interposing the common studies of the schools between our globe, and the minds of young people. Let their sirft ideas be those which are obtruded upon their fenses, by the hand of nature. Permit the firmament of heaven, and the animal, vegetable and mineral productions of the earth, to inftruct them in the wildom and goodness of the Creator, and let the effects of physical evil upon general happiness, vindicate the divine government, in permitting the existence of moral evil in our world. Thus the perverse passions of man, may be made to unive with storms and tempests, in furnishing proofs of the goodness of the Creator of the universe.

But the religion of Mr. Rittenhouse, was not derived wholly from his knowledge and admiration of the material world. He believed in the Christian revelation. Of this, he gave many proofs, not only in the conformity of his life, to the precepts of the golpel, but in his letters and conversation. I well recollect in fpeaking to me of the truth and excellency of the Christian religion, he mentioned as an evidence of its divine origin, that the miracles of our Saviour differed from all other miracles, in being entirely of a kind and benevolent nature. It is no fmall triumph to the friends of Revelation to observe, in this age of infidelity, that our religion has been admitted and even defended by men of the most exalted understanding, and of the strongest ressoning powers. The fingle testimony of David Rittenhouse in its favor, outweighs the declamations of whole nations against it."

* Since the publication of the Eulogium in a pamphlet, I have received the following account of Mr. Rittenhaufe's religious principies, in a letter from his widow, dated August 20th 1797. " That you were " sufficiently authorized to asset what you did respecting Mr. Ritten-

As the natural effect of his belief in the relation of the whole human race to each other in a common Father and Redeemer, he embraced the whole family of mankind in the arms of his benevolence. The force and extent of this virtue in his heart, will appear from my reading one more extract from his oration. I am aware how much I fuffer by introducing quotations from that eloquent performance, for they will caft a shade upon all I have faid, or shall fay upon this occation.

"How far, (fays our philosopher) the inhabitants of the other planets may refemble men, we cannot pretend to fay." If like them they were created liable to fall, yet fome, if not all of them may ftill retain their original rectitude. We will hope they do; the thought is comfortable.—Cease then Gallileo to improve thy optic tube, and thou great Newton, forbear thy ardent fearch, into the mysteries of nature, left ye make unwelcome discoveries. Deprive us not of the pleasure of believing that youder orbs, traversing in filent majefty the etherial regions, are the peaceful feats of inno-

"houfe's religious principles. I now add my testimony to what you thave faid, for well I know the great truths of religion engaged "much of his attention, and indeed were interwoven with almost every important concern of his life. I do not recollect, if in any of the conversations I have had with you, I informed you, what I now do, that Dr. Frice's opinions respecting Christianity were more in unifon with his own, than any others of the divines, that Dr. Price's fermons was the last book he requested me to read to him, and that the last morning of his life, he reminded me that I had not finished one of the Doctor's discours which I had began the preceeding evening."

cence and blifs, where neither natural or moral evil has ever intruded, and where to enjoy with gratitude and adoration the Creator's bounty, is the business of existence. If their inhabitants refemble man in their faculties and affections, let us suppose that they are wife enough to govern themselves according to the dictates of that reason, God has given in such a manner, as to confult their own, and each other's happiness upon all occasions. But if on the contrary, they have found it neceffary to erect artificial fabrics of government, let us not suppose they have done it with so little skill, and at fuch an enormous expense, as to render them a misfortune, instead of a bleffing.-We will hope that their statesmen are patriots, and that their kings (if that order of beings has found admittance there) have the feelings of humanity. Happy people ! -and perhaps more happy still, that all communication with us is denied. We have neither corrupted you with our vices, nor injured you by violence. None of your fons and daughters have been degraded from their native dignity, and doomed to endless flavery in America, merely because their bodies may be disposed to reflect, or absorb the rays of light, different from ours. Even you, inhabitants of the Moon, fituated in our very neighbourhood, are effectually fecured from the rapacious hands of the oppressions of our globe. And the utmost efforts of the mighty Frederick, the tyrant of the North, and scourge of mankind, if aimed to difturb your peace, becomes inconceivably ridiculous and impotent."

" Pardon these reflections. They arise not from the gloomy spirit of milanthrophy. That Being, before whose piercing eye all the intricate foldings of the human heart, become expanded, and illuminated? is my witness with what fincerity, with what ardor -I with for the happiness of the whole race of mankind.-How much I admire that disposition of lands and feas which affords a communication between distant regions, and a metual exchange of benefits-How fincerely I approve of those focial refinements, which add to our happinefs, and induce us with gratitude to acknowledge our Creator's goodness, and how much I delight in a participation of the difcoveries made from time to time in nature's works, by our philosophical brethern in Europe. But (adds our philosopher) when I confider that luxury, and her conftant follower tyranny, which have long fince laid the glories of Afia in the dust, are now advancing like a torrent, irresistible, and have nearly completed their conquest over Europe-I am ready to wish -----vain wifh! that nature would raife her everlasting bars between the new and the old world, and make a voyage to Europe as impracticable as one to the moon."

As when a traveller in paffing through a wildernefs, flackens his pace to prolong the pleafure of a fudden and unexpected profpect of a majeftic river pouring its waters down the declivity of a cloud-cap't mountain, and fpreading fertility and verdure throughout the adjacent vallies, fo we feel difpofed to paufe, and feaft upon the fublime fentiments contained in the paffage which I have read. Citizens of the United States, receive and cherish them as a legacy from a friend, or a brother. Be just, and loose the bands of the African stave. Be wise, and render war odious in our country. Be free, by affuming a national character and name, and be greatly happy, by erecting a barrier against the corruptions in morals, government, and religion, which now pervade all the nations of Europe. *

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But the philanthropy of Mr. Rittenhouse did not confist simply in wishes for the happiness of mankind. He reduced this divine principle to practice by a ferice of faithful and disinterested services to that part of his fellow creatures, to which the usefulness of good men is chiefly confined. His country, his beloved country, was the object of the strongest affections of

* Mr. William Barton, nephew to Mr. Rittenhouse, has favoured me with the following extract of a letter in September, 1755, to his brother.in-law, the Rev. Mr. Barton, who was the friend and correspondent of his youth, which show early and deeply the principles of universal benevolence were fixed in his mind.

" I would fooner give up my intereft in a future flate, than be divefted of humanity;—I mean that good will I have to the species, although one half of them are faid to be fools, and almost the other half knaves. Indeed I am firmly perfuaded, that we are not at the disposal of a Being who has the least tincture of ill-nature, or requires any in us.—You will laugh at this grave philosophy, or my writing to you on a subject which you have thought of a thousand times: but, can any thing that is ferious, be ridiculous ?—Shall we suppose Gabriel st reft or not, because the former plainly fees it move?

his heart. For her, he thought, -for her, he laboured, -and for her, in the hours of her difficulties and danger, he wept,-in every stage of the American revolution. Patriots of 1776, you will acquit me of exaggeration here, for you feel in the recollection of what passed in your own bosoms, a witness of the truth of each of these affertions. The year of the declaration of Independance, which changed our royal governments into Republics, produced no change in his political principles, for he had been educated a Republican by his father. I can never forget the pleasure with which he avowed his early but secret attachment to an elective and representative form of government. Often have I heard him above twenty years, ago, predict the immense encrease of talents and knowledge which has been produced by the ftrength and activity that have been infused into the American mind, by our republican constitutions. Often, likewife, at the fame remote period of time, have I heard him anticipate with delight, the effects of our revolution in fowing the feeds of a new order of things in other parts of the world. He believed political, as well as moral evil to be intruders into the fociety of man-that general happiness was the original defign, and ultimate end of the divine government, and that a time would come, when every part of our globe, would echo back the heavenly proclamation of univerfal peace on earth, and good will to man.

Let it not be faid, unat he departed from the duties of a Philotopher, by devoting a part of his time and talents to the fairty and happinels of his country. It belongs to mon relies, to limit the buline's of government to a privileged order of men, and it is from the remains of a monarchical fpirit in our country, that we complain when clergymen, physicians, philosophers and mechanics, take an active part in civil affairs. The obligations of patriotifm are as univerfal and binding, as those of juffice and benevolence, and the virtucus propensities of the human heart are as much refifted by every individual who neglects the business of his country, as they are by the extinction of the domeflic affections in a cell. Man was made for a republic, and a republic was made for man, otherwife Divine power and goodnefs have been wafted, in the contion and gift of his public aff. Elions .- Our phill opher adopted this truth from the cyldence of his featings, in common with the reft of mankind, but it was licengly reinforced in his mind by numerous ana agies of nature. How was it possible for him to contemplate Eglit and air as the common and equal portions of every man, and not acknowledge that heaven intended hourty to be diffributed in the fame manuer actong the whole human race ! Or how could he behold the beauty and harmony of the universe, as the refult of universal and mutual dependance, and not admit that heaven intended rulers to be dependent upon those, for whole benefit alone, all government flould

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exist. To suppose the contrary, would be to deny unity and system in the plans of the great creator of all things.

I shall make no apology for these fentiments. They are not foreign to the folemnity of this discourse. Had I said less of the political principles and conduct of our enlightened President hundreds and thousands of my fellow-citizens would have accused me, of an act of treachery to his memory. May the time never come, in which the praises of our republican governments, shall not be acceptable to the ears of an Ametican audience !

In the more limited circles of private life, Mr Rittenhouse commanded esteem and affection. As a neighbour he was kind and charitable. His fympathy extended in a certain degree to diffrefs of every kind, but it was excited with the most force, and the kindest effects, to the weakness, pain and poverty of old age .-- As a friend he was fincere, ardent, and difinterested. As a companion, he instructed upon all fubjects. To his happy communicative difpolition, I beg leave to express my obligations in this public manner. I can truly fay, after an acquaintance with him for fix-and-twenty years, that I never went into his company, without learning fomething. With pleafure have I looked beyond my prefent labors to a time, when his fociety fhould constitute one of the principal enjoyments of the evening of

my life.—But alas! that time, so often anticipated, and so delightful in prospect—will never—come

I hope it will not be thought that I tread too closely upon his footsteps, when I presume to lift the latch of his door, and to exhibit him in the domestic relations of a husband and father. It was the practice of the philosophers of former ages, to pass their lives in their closets, and to maintain a formal and diftant intercourse with their families; but our philosopher was a stranger to pride and imposture in every thing. His family constituted his chief fociety, and the most intimate circle of his friends. When the declining state of his health, rendered the solitude of his study, less agreeable than in former years, he paffed whole evenings in reading or conversing, with his wife and daughters. Happy family ! fo much and fo long bleffed with fuch a head ! and happier still, to have possessed dispositions and knowledge to difcern and love his exalted character, and to enjoy his instructing conversation !---Thus Sir Thomas Moore lived with his accomplifhed wife and daughters ;- Thus Cicero educated his beloved Tullia; and in this way only, can the female fex be elevated to that dignity, and usefulness in fociety, for which they were formed, and by which from their influence upon manners, a new æra would be created in the hiftory of mankind.

The house and manner of living, of our president, exhibited the take of a philosopher, the simplicity of a republican, and the temper of a Christian. He was independent, and contented with an estate, fmall in the estimation of ambition and avarice, but amply faited to all his wants and defires. He held the office of treasurer of Pennsylvania, by an annual and unanimous vote of the legislature, between the years 1777, and 1789. During this period, he declined purchasing the smallest portion of the public debt of the state, thereby manifesting a delicacy of integrity, which is known and felt only by pure and elevated minds.

In the year 1792, he was perfuaded to accept of the office of Director of the mint of the United States. His want of health, obliged him to refign it in 1795. Here his conduct was likewife above fufpicion, for I have been informed by his colleague in office, \dagger that in feveral inftances, he paid for work done at the mint out of his falary, where he thought the charges for it would be deemed extravagant by the United States.

His æconomy extended to a wife and profitable ufe of his time. No man ever found him unemployed. As an apology for detaining a friend a few minutes, while he arranged fome papers he had been examining, he faid, " that he had once thought health, the greateft bleffing in the world, but that he now thought there was one thing of much greater value, and that was time." The propriety of this remark will appear when we confider, that Providence, fo liberal in other gifts, beftows this, in a fparing manner.

He never gives a fecond moment, until he has withdrawn the unit, and full referves the third in his own hand.

The countenance of Mr. Rittenhoule, was too remarkable to be unnoticed upon this occasion. It difplayed such a mixture of contemplation, benignity, and innocence, that it was easy to diffinguish his performin the largest company, by a previous knowledge of his charaCler. His manners were eivil, and engaging to fuch a degree, that he feldom pailed an hour, even in a public house, in travelling through our country without being followed by the good withes of all who attended upon hims. There was no affectation of fingulatity, in any thing he faid or did i even his band writing, in which this weakness to frequently discovers itself, was simple and intelligible at first fight, to all who faw it.

Here I expected to have finished the detail of his virtues, but in the neighbourhood of that galaxy created by their connected lastre, I behold a virtue of inestimable value, twinkling like a rare, and folitary star. It is his superlative modesty. This heaven born virtue was so completeeus in every part of Lis conduct, that he appeared not so much to conecal, as to be ignorant of his superiority as a philosopher and a man, over the greatest part of his tellow creatures.

In reviewing the intellectual endowments and moral encoden y of Mr. Rittenhouse, and our late intimate

connection with him, we are led to rejoice in being men.

We proceed now to the closing scenes of his life.

His constitution was naturally feeble, but it was rendered still more so, by sedentary labor, and midnight studies. He was afflicted for many years with a weak breast, which, upon unufual exertions of body or mind, or fudden changes in the weather, became the feat of a painful and harraffing diforder. This conftitutional infirmity was not without its uses. It contributed much to the perfection of his virtue, by producing habitual patience and refignation to the will of heaven, and a conftant eye to the hour of his diffultion. It was a window through which he often looked with pleasure towards a place of existence where from the encrease and perfection of his intuitive faculties, he would probably acquire more knowledge in an hour, than he had acquired in his whole life, by the flow operations of reafon; and where, from the greater magnitude and extent of the the objects of his contemplation, his native globe, would appear like his cradle, and all the events of time, like the amufements of his infant years.

On the 26th of June, of the prefent year, the long expected metionger of death, difclofed his commillion. In his last illnefs, which was acute, and short, he retained the usual patience and benevolonce of his temper. Upon being told that fome of his friends had called at his door to enquire how he was; he afked why they were not invited ito his chamber to fee him. "Becaufe (faid his wife) you are too weak to fpeak to them." "Yes (faid he) that is true, but I could ftill have fqueezed their hands."—I'hus with a heart overflowing with love to his family, friends, country, and to the whole world, he peacefully refigned his fpirit into the hands of his God. Let the day of his death be recorded in the annals of our fociety, and let its annual return be marked by fome public act, which fhall characterife his fervices and our grief, and thereby animate us and our fucceffors, to imitate his illuftrious example !

It has been the fashion of late years, to fay of perfons who had been diffinguished in life, when they left the world in a state of indifference to every thing, and believing, and hoping in nothing, that they died like philosophers. Very different was the latter end of our excellent president. He died like a christian, interested in the welfare of all around him—believing in the refurrection, and the life to come, and hoping for happines from every attribute of the Deity.

Agreeably to his requeft, his body was interred in his obfervatory near his dwelling houfe, in the prefence of a numerous concourfe of his fellow-citizens.⁴ It was natural for him in the near prospect of appearing in the prefence of his Maker, to feel an

attachment to that fpot in which he had cultivated a knowly 'ze of his perfections, and held communion with him through the medium of his works. Hereafter it shall become one of the objects of curiosity in our city. Thither shall the philosophers of future ages refort to do homage to his tomb, and children yet unborn, shall point to the dome which covers it, and exultingly fay, " there lies our Rittenhouse."

Let us my respected colleagues, repair for a few minutes to that awful spot.-In entering it-we behold the telescope, dear instrument of his discoveries, turned upon its axis, and pointed to the earth, which has closed its master's eyes.-How artless-the infcription upon his tombstone !---It contains nothing but his name, and the simple record of the days and years of his birth and death.-Very different would have been the monument of his worth and fame, had not the gratitude and affection of his friends been controuled by his dying request. His head would have reclined in marble, upon the lap of religion. At his feet, science would have fat-bathed in tears; while the genius of republican liberty, in the figure of a venerable hermit, bending over his grave, would have deplored the loss of his favourite fon.-Alas !--- too --- too foon has our beloved prefident been torn from the chair of our fociety !--- Too foon has he laid afide his robes of office, and ceafed to minister for us day and night at the altar of fcience !- Ah !- who now will elevate his telescope, dagain direct it towards yonder heavens?

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Who now will observe the transit of the planets? Who now will awaken our nation to view the trackles and stupendous comet? Who now will measure the courses of our rivers, in order to convey their streams into our city, for the purposes of health and commerce ?-----Nature is dumb;-----for the voice of her chief interpreter is hushed in death.—In this hour of our bereavement, to whom shall we look ?---but to THEE, FATHER of life and light:---thou author of great and good gifts to man. O! let not thy Sun, thy Moon, and thy Stars now fhine unobferved among us ! may the genius of our departed prefident, like the mantle of thy prophet of old, descend upon some member of our fociety, who shall, as he did, explain to us the mysteries of thy works, and lead us step by step, to THYSELF, the great overflowing fountain of wifdom, goodness and mercy, to the children of men!

