

The Cosmological Argument: A Defense

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[1] Suppose you were strolling in the woods and, in addition to the sticks, stones, and other accustomed litter of the forest floor, you one day came upon some quite unaccustomed object, something not quite like what you had ever seen before and would never expect to find in such a place. Suppose, for example, that it is a large ball, about your own height, perfectly smooth and translucent. You would deem this puzzling and mysterious, certainly, but if one considers the matter, it is no more inherently mysterious that such a thing should exist than that anything else should exist. If you were quite accustomed to finding such objects of various sizes around you most of the time, but had never seen an ordinary rock, then upon finding a large rock in the woods one day you would be just as puzzled and mystified. This illustrates the fact that something that is mysterious ceases to seem so simply by its accustomed presence. It is strange indeed, for example, that a world such as ours should exist; yet few men are very often struck by this strangeness, but simply take it for granted.

[2] Suppose, then, that you have found this translucent ball and are mystified by it. Now whatever else you might wonder about it, there is one thing you would hardly question; namely, that it did not appear there all by itself, that it owes its existence to something. You might not have the remotest idea whence and how it came to be there, but you would hardly doubt that there was an explanation. The idea that it might have come from nothing at all, that it might exist without there being any explanation of its existence, is one that few people would consider worthy of entertaining.

[3] This illustrates a metaphysical belief that seems to be almost a part of reason itself, even though few men ever think upon it; the belief, namely, that there is some explanation for the existence of anything whatever, some reason why it should exist rather than not. The sheer nonexistence of anything, which is not to be confused with the passing out of existence of something, never requires a reason; but existence does. That there should never have been any such ball in the forest does not require any explanation or reason, but that there should ever be such a ball does. If one were to look upon a barren plain and ask why there is not and never has been any large translucent ball there, the natural response would be to ask why there should be; but if one finds such a ball, and wonders why it is there, it is not quite so natural to ask why it should not be, as though existence should simply be taken for granted. That anything should not exist, then, and that, for instance, no such ball should exist in the forest, or that there should be no forest for it to occupy, or no continent containing a forest, or no earth, nor any world at all, do not seem to be things for which there needs to be any explanation or reason; but that such things should be, does seem to require a reason.

[4] The principle involved here has been called the principle of sufficient reason. Actually, it is a very general principle, and is best expressed by saying that, in the case of any positive truth, there is some sufficient reason for it, something which, in this sense, makes it true -- in short, that there is some sort of explanation, known or unknown, for everything.

[5] Now some truths depend on something else, and are accordingly called contingent, while others depend only upon themselves, that is, are true by their very natures and are accordingly called necessary. There is, for example, a reason why the stone on my window sill is warm; namely, that the sun is shining upon it. This happens to be true, but not by its very nature. Hence, it is contingent, and depends upon something other than itself. It is

also true that all the points of a circle are equidistant from the center, but this truth depends upon nothing but itself. No matter what happens, nothing can make it false. Similarly, it is a truth, and a necessary one, that if the stone on my window sill is a body, as it is, then it has a form, because this fact depends upon nothing but itself for its confirmation. Untruths are also, of course, either contingent or necessary, it being contingently false, for example, that the stone on my window sill is cold, and necessarily false that it is both a body and formless, because this is by its very nature impossible.

[6] The principle of sufficient reason can be illustrated in various ways, as we have done, and if one thinks about it, he is apt to find that he presupposes it in his thinking about reality, but it cannot be proved. It does not appear to be itself a necessary truth, and at the same time it would be most odd to say it is contingent. If one were to try proving it, he would sooner or later have to appeal to considerations that are less plausible than the principle itself. Indeed, it is hard to see how one could even make an argument for it, without already assuming it. For this reason it might properly be called a presupposition of reason itself. One can deny that it is true, without embarrassment or fear of refutation, but one is then apt to find that what he is denying is not really what the principle asserts. We shall, then, treat it here as a datum -- not something that is provably true, but as something which all men, whether they ever reflect upon it or not, seem more or less to presuppose.

The Existence of a World

[7] It happens to be true that something exists, that there is, for example, a world, and although no one ever seriously supposes that this might not be so, that there might exist nothing at all, there still seems to be nothing the least necessary in this, considering it just by itself. That no world should ever exist at all is perfectly comprehensible and seems to express not the slightest absurdity. Considering any particular item in the world it seems not at all necessary in itself that it should ever have existed, nor does it appear any more necessary that the totality of these things, or any totality of things, should ever exist.

[8] From the principle of sufficient reason it follows, of course, that there must be a reason, not only for the existence of everything in the world but for the world itself, meaning by "the world" simply everything that ever does exist, except God, in case there is a god. This principle does not imply that there must be some purpose or goal for everything, or for the totality of all things; for explanations need not, and in fact seldom are, teleological or purposeful. All the principle requires is that there be some sort of reason for everything. And it would certainly be odd to maintain that everything in the world owes its existence to something, that nothing in the world is either purely accidental, or such that it just bestows its own being upon itself, and then to deny this of the world itself. One can indeed say that the world is in some sense a pure accident, that there simply is no reason at all why this or any world should exist, and one can equally say that the world exists by its very nature, or is an inherently necessary being. But it is at least very odd and arbitrary to deny of this existing world the need for any sufficient reason, whether independent of itself or not, while presupposing that there is a reason for every other thing that ever exists.

[9] Consider again the strange ball that we imagine has been found in the forest. Now we can hardly doubt that there must be an explanation for the existence of such a thing, though we may have no notion what that explanation is. It is not, moreover, the fact of its having been found in the forest rather than elsewhere that renders an explanation

necessary. It matters not in the least where it happens to be, for our question is not how it happens to be *there* but how it happens to exist at all. If we in our imagination annihilate the forest, leaving only this ball in an open field, our conviction that it is a contingent thing and owes its existence to something other than itself is not reduced in the least. If we now imagine the field to be annihilated, and in fact everything else as well to vanish into nothingness, leaving only this ball to constitute the entire physical universe, then we cannot for a moment suppose that its existence has thereby been explained, or the need of any explanation eliminated, or that its existence is suddenly rendered self-explanatory. If we now carry this thought one step further and suppose that no other reality ever has existed or ever will exist, that this ball forever constitutes the entire physical universe, then we must still insist on there being some reason independent of itself why it should exist rather than not. If there must be a reason for the existence of any particular thing, then the necessity of such a reason is not eliminated by the mere supposition that certain other things do not exist. And again, it matters not at all what the thing in question is, whether it be large and complex, such as the world we actually find ourselves in, or whether it be something small, simple and insignificant, such as a ball, a bacterium, or the merest grain of sand. We do not avoid the necessity of a reason for the existence of something merely by describing it in this way or that. And it would, in any event, seem quite plainly absurd to say that if the world were comprised entirely of a single ball about six feet in diameter, or of a single grain of sand, then it would be contingent and there would have to be some explanation other than itself why such a thing exists, but that, since the actual world is vastly more complex than this, there is no need for an explanation of its existence, independent of itself.

Beginningless Existence

[10] It should now be noted that it is no answer to the question, why a thing exists, to state how long it has existed. A geologist does not suppose that he has explained why there should be rivers and mountains merely by pointing out that they are old. Similarly, if one were to ask, concerning the ball of which we have spoken, for some sufficient reason for its being, he would not receive any answer upon being told that it had been there since yesterday. Nor would it be any better answer to say that it had existed since before anyone could remember, or even that it had *always* existed; for the question was not one concerning its age but its existence. If, to be sure, one were to ask where a given thing came from, or how it came into being, then upon learning that it had always existed he would learn that it never really came into being at all; but he could still reasonably wonder why it should exist at all. If, accordingly, the world -- that is, the totality of all things excepting God, in case there is a god -- had really no beginning at all, but has always existed in some form or other, then there is clearly no answer to the question, where it came from and when; it did not, on this supposition, come from anything at all, at any time. But still, it can be asked why there is a world, why indeed there is a beginningless world, why there should have perhaps always been something rather than nothing. And, if the principle of sufficient reason is a good principle, there must be an answer to that question, an answer that is by no means supplied by giving the world an age, or even an infinite age.

Creation

[11] This brings out an important point with respect to the concept of creation that is often misunderstood, particularly by those whose thinking has been influenced by Christian ideas. People tend to think that creation -- for example, the creation of the world by God -- means creation in time, from which it of course logically follows that if the world had no beginning in time, then it cannot be the creation of God. This, however, is erroneous, for creation means essentially dependence, even in Christian theology. If one thing is the creation of another, then it depends for its existence on that other, and this is perfectly consistent with saying that both are eternal, that neither ever came into being, and hence, that neither was ever created at any point of time. Perhaps an analogy will help convey this point. Consider, then, a flame that is casting beams of light. Now there seems to be a clear sense in which the beams of light are dependent for their existence upon the flame, which is their source, while the flame, on the other hand, is not similarly dependent for its existence upon them. The beams of light arise from the flame, but the flame does not arise from them. In this sense, they are the creation of the flame; they derive their existence from it. And none of this has any reference to time; the relationship of dependence in such a case would not be altered in the slightest if we supposed that the flame, and with it the beams of light, had always existed, that neither had ever come into being.

[12] Now if the world is the creation of God, its relationship to God should be thought of in this fashion; namely, that the world depends for its existence upon God, and could not exist independently of God. If God is eternal, as those who believe in God generally assume, then the world may (though it need not) be eternal too, without that altering in the least its dependence upon God for its existence, and hence without altering its being the creation of God. The supposition of God's eternity, on the other hand, does not by itself imply that the world is eternal too; for there is not the least reason why something of finite duration might not depend for its existence upon something of infinite duration -- though the reverse is, of course, impossible.

God

[13] If we think of God as "the creator of heaven and earth," and if we consider heaven and earth to include everything that exists except God, then we appear to have, in the foregoing considerations, fairly strong reasons for asserting that God, as so conceived, exists. Now of course most people have much more in mind than this when they think of God, for religions have ascribed to God ever so many attributes that are not at all implied by describing him merely as the creator of the world; but that is not relevant here. Most religious persons do, in any case, think of God as being at least the creator, as that being upon which everything ultimately depends, no matter what else they may say about him in addition. It is, in fact, the first item in the creeds of Christianity that God is the "creator of heaven and earth." And, it seems, there are good metaphysical reasons, as distinguished from the persuasions of faith, for thinking that such a creative being exists.

[14] If, as seems clearly implied by the principle of sufficient reason, there must be a reason for the existence of heaven and earth -- i.e., for the world -- then that reason must be found either in the world itself, or outside it, in something that is literally supernatural, or outside heaven and earth. Now if we suppose that the world -- i.e., the totality of all things except God -- contains within itself the reason for its existence, we are supposing that it exists by its very nature, that is, that it is a necessary being. In that case there

would, of course, be no reason for saying that it must depend upon God or anything else for its existence; for if it exists by its very nature, then it depends upon nothing but itself, much as the sun depends upon nothing but itself for its heat. This, however, is implausible, for we find nothing about the world or anything in it to suggest that it exists by its own nature, and we do find, on the contrary, ever so many things to suggest that it does not. For in the first place, anything that exists by its very nature must necessarily be eternal and indestructible. It would be a self-contradiction to say of anything that it exists by its own nature, or is a necessarily existing thing, and at the same time to say that it comes into being or passes away, or that it ever could come into being or pass away. Nothing about the world seems at all like this, for concerning anything in the world, we can perfectly easily think of it as being annihilated, or as never having existed in the first place, without there being the slightest hint of any absurdity in such a supposition.

[15] Some of the things in the universe are, to be sure, very old; the moon, for example, or the stars and the planets. It is even possible to imagine that they have always existed. Yet it seems quite impossible to suppose that they owe their existence to nothing but themselves, that they bestow existence upon themselves by their very natures, or that they are in themselves things of such nature that it would be impossible for them not to exist. Even if we suppose that something, such as the sun, for instance, has existed forever, and will never cease, still we cannot conclude just from this that it exists by its own nature. If, as is of course very doubtful, the sun has existed forever and will never cease, then it is possible that its heat and light have also existed forever and will never cease; but that would not show that the heat and light of the sun exist by their own natures. They are obviously contingent and depend on the sun for their existence, whether they are beginningless and everlasting or not.

[16] There seems to be nothing in the world, then, concerning which it is at all plausible to suppose that it exists by its own nature, or contains within itself the reason for its existence. In fact, everything in the world appears to be quite plainly the opposite, namely, something that not only need not exist, but at some time or other, past or future or both, does not in fact exist. Everything in the world seems to have a finite duration, whether long or short. Most things, such as ourselves, exist only for a short while; they come into being, then soon cease. Other things, like the heavenly bodies, last longer, but they are still corruptible, and from all that we can gather about them, they too seem destined eventually to perish. We arrive at the conclusion, then, that although the world may contain some things that have always existed and are destined never to perish, it is nevertheless doubtful that it contains any such thing and, in any case, everything in the world is capable of perishing, and nothing in it, however long it may already have existed and however long it may yet remain, exists by its own nature, but depends instead upon something else.

[17] Although this might be true of everything in the world, is it necessarily true of the world itself? That is, if we grant, as we seem forced to, that nothing in the world exists by its own nature, that everything in the world is contingent and perishable, must we also say that the world itself, or the totality of all these perishable things, is also contingent and perishable? Logically, we are not forced to, for it is logically possible that the totality of all perishable things might itself be imperishable, and hence, that the world might exist by its own nature, even though it is comprised exclusively of things that are contingent. It is not logically necessary that a totality should share the defects of its members. For example, even though every man is mortal, it does not follow from this that the human race, or the totality of all men, is also mortal; for it is possible that there will always be human beings, even though there are no human beings who will always exist. Similarly, it is possible that

the world is in itself a necessary thing, even though it is comprised entirely of things that are contingent.

[18] This is logically possible, but it is not plausible. For we find nothing whatever about the world, any more than in its parts, to suggest that it exists by its own nature. Concerning anything in the world, we have not the slightest difficulty in supposing that it should perish, or even that it should never have existed in the first place. We have almost as little difficulty in supposing this of the world itself. It might be somewhat hard to think of everything as utterly perishing and leaving no trace whatever of its ever having been, but there seems to be not the slightest difficulty in imagining that the world should never have existed in the first place. We can, for instance, perfectly easily suppose that nothing in the world had ever existed except, let us suppose, a single grain of sand, and we can thus suppose that this grain of sand has forever constituted the whole universe. Now if we consider just this grain of sand, it is quite impossible for us to suppose that it exists by its very nature, and could never have failed to exist. It clearly depends for its existence upon something other than itself, if it depends on anything at all. The same will be true if we consider the world to consist, not of one grain of sand, but of two, or of a million, or, as we in fact find, of a vast number of stars and planets and all their minuter parts.

[19] It would seem, then, that the world, in case it happens to exist at all -- and this is quite beyond doubt -- is contingent and thus dependent upon something other than itself for its existence, if it depends upon anything at all. And it must depend upon something, for otherwise there could be no reason why it exists in the first place. Now that upon which the world depends must be something that either exists by its own nature or does not. If it does not exist by its own nature, then it, in turn, depends for its existence upon something else, and so on. Now then, we can say either of two things: namely, (1) that the world depends for its existence upon something else, which in turn depends on still another thing, this depending upon still another, *ad infinitum*; or (2) that the world derives its existence from something that exists by its own nature and that is accordingly eternal and imperishable, and is the creator of heaven and earth. The first of these alternatives, however, is impossible, for it does not render a sufficient reason why anything should exist in the first place. Instead of supplying a reason why any world should exist, it repeatedly begs off giving a reason. It explains what is dependent and perishable in terms of what is itself dependent and perishable, leaving us still without a reason why perishable things should exist at all, which is what we are seeking. Ultimately, then, it would seem that the world, or the totality of contingent or perishable things, in case it exists at all, must depend upon something that is necessary and imperishable, and that accordingly exists, not in dependence upon something else, but by its own nature.

"Self-Caused"

[20] What has been said thus far gives some intimation of what meaning should be attached to the concept of a self-caused being, a concept that is quite generally misunderstood, sometimes even by scholars. To say that something -- God, for example -- is self-caused, or is the cause of its own existence, does not mean that this being brings itself into existence, which is a perfectly absurd idea. Nothing can bring itself into existence. To say that something is self-caused (*causa sui*) means only that it exists, not contingently or in dependence upon something else, but by its own nature, which is only to say that it is a being which is such that it can neither come into being nor perish. Now whether such a being in fact exists or not, there is in any case no absurdity in the idea. We have found, in

fact, that the principle of sufficient reason seems to point to the existence of such a being, as that upon which the world, with everything in it, must ultimately depend for its existence.

"Necessary Being"

[21] A being that depends for its existence upon nothing but itself, and is in this sense self-caused, can equally be described as a necessary being; that is to say, a being that is not contingent, and hence not perishable. For in the case of anything that exists by its own nature and is dependent upon nothing else, it is impossible that it should not exist, which is equivalent to saying that it is necessary. Many persons have professed to find the gravest difficulties in this concept, too, but that is partly because it has been confused with other notions. If it makes sense to speak of anything as an impossible being, or something that by its very nature does not exist, then it is hard to see why the idea of a necessary being, or something that in its very nature exists, should not be just as comprehensible. And of course, we have not the slightest difficulty in speaking of something, such as a square circle or a formless body, as an impossible being. And if it makes sense to speak of something as being perishable, contingent, and dependent upon something other than itself for its existence, as it surely does, then there seems to be no difficulty in thinking of something as imperishable and dependent upon nothing other than itself for its existence.

"First Cause"

[22] From these considerations we can see also what is properly meant by a first cause, an appellative that has often been applied to God by theologians, and that many persons have deemed an absurdity. It is a common criticism of this notion to say that there need not be any first cause, because the series of causes and effects that constitute the history of the universe might be infinite or beginningless and must, in fact, be infinite in case the universe itself had no beginning in time. This criticism, however, reflects a total misconception of what is meant by a first cause. First here does not mean first in time, and when God is spoken of as a first cause, he is not being described as a being which, at some time in the remote past, started everything. To describe God as a first cause is only to say that he is literally a primary rather than a secondary cause, an ultimate rather than a derived cause, or a being upon which all other things, heaven and earth, ultimately depend for their existence. It is, in short, only to say that God is the creator, in the sense of creation explained above. Now this, of course, is perfectly consistent with saying that the world is eternal or beginningless. As we have seen, one gives no reason for the existence of a world merely by giving it an age, even if it is supposed to have an infinite age. To use a helpful analogy, we can say that the sun is the first cause of daylight and, for that matter, of the moonlight of the night as well, which means only that daylight and moonlight ultimately depend upon the sun for their existence. The moon, on the other hand, is only a secondary or derivative cause of its light. This light would be no less dependent upon the sun if we affirmed that it had no beginning, for an ageless and beginningless light requires a source no less than an ephemeral one. If we supposed that the sun has always existed, and with it its light, then we would have to say that the sun has always been the first -- i.e., the primary or ultimate -- cause of its light. Such is precisely the manner in which God should be thought of, and is by theologians often thought of, as the first cause of heaven and earth.