

Re: Cantor and the binary tree

Source: <http://sci.tech-archive.net/Archive/sci.math/2005-06/msg03845.html>

- *From:* iminatorium@xxxxxxxxxxxxxx
 - *Date:* 21 Jun 2005 20:42:10 -0700
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Tony Orlow (aeo6) wrote:

<snip> ... Here it is again, the standard 'argument':

- > Excuse me Martin, but maybe you should have some of what I am smoking. Every
- > path ends in a leaf node, which are half the nodes in the tree.

An infinite tree means one in which *every* node branches and leads to more paths. However, in a *finite* tree, every path ends in a leaf node. In real mathematics that means that in an infinite tree, every path is unending. But in Orlovian mathematics, any selected statement true of a finite object is also true of an infinite one, and therefore, although the paths never end, they end in leaf nodes.

- > ... You start with
- > one node that represents the root path. For each pair of nodes, you create a
- > new path. A finite tree with n levels (including the root) has $(2^n)-1$ nodes,
- > $(2^n)-2$ branches, and only $2^{(n-1)}$, or $(2^n)/2$ paths, as denoted by its leaf
- > nodes. This relationship is preserved through infinity, even in the absence of
- > identifiable leaf nodes.

Say the magic Induction Mantra "Preserved through infinity", and overcome the nonexistence of something by claiming it is "unidentifiable".

Hmm. Seen it all before, somewhere.

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- *Follow-Ups:*
 - ◆ ***Re: Cantor and the binary tree***
 - ◇ *From:* aeo6

• **References:**

- ◆ **Re: Cantor and the binary tree**
◇ From: mueckenh
- ◆ **Re: Cantor and the binary tree**
◇ From: Virgil
- ◆ **Re: Cantor and the binary tree**
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- ◆ **Re: Cantor and the binary tree**
◇ From: mueckenh
- ◆ **Re: Cantor and the binary tree**
◇ From: Martin Shobe
- ◆ **Re: Cantor and the binary tree**
◇ From: aeo6

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