

Re: Cantor and the binary tree

Source: <http://sci.tech--archive.net/Archive/sci.math/2005-06/msg03911.html>

- *From:* Tony Orlow (aeo6) <aeo6@xxxxxxxxxxxx>
 - *Date:* Wed, 22 Jun 2005 12:06:45 -0400
-

imaginatorium@xxxxxxxxxxxx said:

>
>
> Tony Orlow (aeo6) wrote:
>
> <snip> ... Here it is again, the standard 'argument':

That was an obnoxious snip. You deliberately snipped the context, where Martin said:

> What is it you are smoking? Can I have some? Even in finite binary
> trees, the number of paths is greater than the number of nodes where
> branching occurs.

>
This is a statement specifically about FINITE binary trees, and it's incorrect. Try to be honest from now on, and stop snipping context to make others look stupid.

>
>> 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.

Do you see how this statement sounds in the context of what you snipped? Yep, pretty dumb.

>
>> ... 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.

>

Re: Cantor and the binary tree

- > 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.
- Probably somewhere else where it didn't exist. You want to get that checked out. I hear there's a cure for Cantorian flu.....
- >
 - > Brian Chandler
 - > <http://imagination.org>
 - >
 - >

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Smiles,

Tony

• *Follow-Ups:*

- ◆ **Re: Cantor and the binary tree**
◇ From: Martin Shobe
- ◆ **Re: Cantor and the binary tree**
◇ From: imagination

• *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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◇ From: mueckenh
- ◆ **Re: Cantor and the binary tree**
◇ From: Martin Shobe
- ◆ **Re: Cantor and the binary tree**
◇ From: ae06
- ◆ **Re: Cantor and the binary tree**
◇ From: imagination

- Prev by Date: **Re: Logic in Schools**
- Next by Date: **Re: Cantor and the binary tree**

Re: Cantor and the binary tree

- Previous by thread: ***Re: Cantor and the binary tree***
- Next by thread: ***Re: Cantor and the binary tree***
- Index(es):
 - ◆ ***Date***
 - ◆ ***Thread***