

# Re: Cantor and the binary tree

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*Source:* <http://sci.tech-archive.net/Archive/sci.math/2005-06/msg00422.html>

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- *From:* "Dik T. Winter" <[Dik.Winter@xxxxxx](mailto:Dik.Winter@xxxxxx)>
  - *Date:* Thu, 2 Jun 2005 23:54:06 GMT
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In article <1117743718.175728.184440@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>  
mueckenh@xxxxxxxxxxxxxxxxxxxx writes:

> Robert Kolker wrote:

....

>> Consider the identity map from the natural numbers to the natural  
>> nubers. There is no infinite natural number.

>

> Consider the mapping

>

> 1 --> {1}

> 2 --> {1,2}

> 3 --> {1,2,3}

> ...

> n --> {1,2,3,...,n}

> ...

> ? --> {1,2,3,...} = N

There is no such number.

> Do you see the contradiction arising from the "infinite set of finite  
> numbers"?

What contradiction?

—

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• *References:*

◆ [\*Re: Cantor and the binary tree\*](#)

◇ *From:* mueckenh

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Re: Cantor and the binary tree

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