

sci.math: Re: "A random real number will be on a computables list to an infinite number of digits"

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From: The Ghost In The Machine (*ewill_at_sirius.athghost7038suus.net*)

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Date: Thu, 20 Jan 2005 15:00:18 GMT

In sci.logic, George Cox

<george_coxanti@spambtinternet.com.invalid>

wrote

on Thu, 20 Jan 2005 02:50:56 +0000 (UTC)

<41EF1C98.718BD804@spambtinternet.com.invalid>:

> /-|erc wrote:

>>

>> *True / False / Other ?*

>> _____

>>

>> *"All finite subsequences of a random real number*

>

> *What is a random real number?*

The question

"All finite subsequences of a random real number
are in a computable list L"

can be rendered:

"What is the probability that, for an arbitrary element r of \mathbb{R} ,
that $\text{Prefix}(r)$ is wholly contained in the computable list L ?"

where $\text{Prefix}(r) = \{q: q = \text{floor}[r * 10^n]/10^n, n \geq 0, n \in \mathbb{J}\}$.

AFAIK, this is a fairly general technique for dealing with
probability questions — an extension of T/F questions.

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#191, ewill13@earthlink.net

It's still legal to go .sigless.