Re: November 25 is Infinite Clause day!!

Source: http://sci.tech−archive.net/Archive/sci.math/2004−12/2081.html

---

From: HERC777 (*herc777_at_hotmail.com*)
Date: 11/27/04

Date: 26 Nov 2004 19:23:33 −0800

> > An infinite number of people toss a coin infinite times each.
> > Can you guarantee a new sequence of Heads and Tails?

the smarter people of the group can't see this is a well formed
question but 20 others have answered it.

> > Can you guarantee a new sequence of Heads and Tails?

> This is simply meaningless. There are AN INFINITE NUMBER OF sequences
> of heads and tails being generated here (one for each tosser).
> They could all be the same. They could all be different. The

then assume the worst case, because you HAVE to make a unique sequence,
that is, you cannot rely on some pattern forming in the set that
"allows" you to find a unique sequence. You have a problem that the
output is unkown, and you have a problem understanding why you need a
guarantee. Guarantee means for ANY possible set.

>In the first place, there are not now
>nor will there ever be an infinite number of people in the world.
>In the second place, even if there WERE an infinite number of people
>in the world, the number of sequences−of−flips is a much BIGGER
>infinity than that, so the probability of any particular sequence

Just read it as, assume an infinite list of binary number expansions
from 0.000... to 0.11111..

>occurring AT ALL (as 1 flipper's) IS 0. "Guarantee" a "new" sequence??
>EVERY INDIVIDUAL flipper's sequence is "new"! It will CERTAINLY,
>EVENTUALLY, be a sequence that NOBODY HAS EVER EVEN THOUGHT ABOUT
before!

That is the fake infinity that Cantors rubbish forces you to believe.
There is no logical reason why 2 different people can't flip the same
side of a coin again and again. You say any sequence is P=0 then in
the next breath say they certainly exist.

When 100 people have tossed coins for a while, to get a complete new sequence it must be longer than log(100) tosses, because

HHHHHH someone got it already
HHHHHT someone got it already
HHHHTH someone got it already
HHHHTT someone got it already
HHHTHH someone got it already
HHHTHT someone got it already
HHHTTH someone got it already
HHHTTT someone got it already
HHTHHH someone got it already
HHTHHT someone got it already
HHTHTH someone got it already
HHTHTT someone got it already
HHTTHH someone got it already
HHTTHT someone got it already
HHTTTH someone got it already
HHTTTT someone got it already
HTHHHH someone got it already
HTHHHT someone got it already
HTHHTH someone got it already
HTHHTT someone got it already
HTHTHH someone got it already
HTHTHT someone got it already
HTHTTH someone got it already
HTHTTT someone got it already
HTTHHH someone got it already
HTTHHT someone got it already
HTTHTH someone got it already
HTTHTT someone got it already
HTTTHH someone got it already
HTTTHT someone got it already
HTTTTH someone got it already
HTTTTT someone got it already
THHHHH someone got it already
THHHHT someone got it already
THHHTH someone got it already
THHHTT someone got it already
THHTHH someone got it already
THHTHT someone got it already
THHTTH someone got it already
THHTTT someone got it already
THTHHH someone got it already
THTHHT someone got it already
THTHTH someone got it already
THTHTT someone got it already
THTTHH someone got it already
THTTHT someone got it already
THTTTH someone got it already
THTTTT someone got it already

TTHHHH someone got it already
TTHHHT someone got it already
TTHHTH someone got it already
TTHHTT someone got it already
TTHTHH someone got it already
TTHTHT someone got it already
TTHTTH someone got it already
TTHTTT someone got it already
TTTHHH someone got it already
TTTHHT someone got it already
TTTHTH someone got it already
TTTHTT someone got it already
TTTTHH someone got it already
TTTTHT someone got it already
TTTTTH someone got it already
TTTTTT someone got it already

When 1,000,000 people have all tossed coins for a while, your UNIQUE SEQUENCE must be even longer, around 15 digits long for a high confidence of it being unique.

As the number of people −> oo, to toss a unique sequence it must be longer_than_log(S) as S−>oo. Sure you're up to it?

Herc