

Re: What is the approximating density of this sequence?

Re: What is the approximating density of this sequence?

Source: <http://sci.tech-archive.net/Archive/sci.math/2005-11/msg00460.html>

- *From:* "MuTsun Tsai" <don.tsai@xxxxxxxxxxxxxxxx>
 - *Date:* Thu, 3 Nov 2005 05:28:35 +0800
-

> A number of m digits is in S if and only if the sum of its digits is
> divisible by m .
> Thus every m 'th m -digit number is in S . Since $1/m \rightarrow 0$ as $m \rightarrow \infty$, the
> asymptotic density is 0.

I was thinking about the same argument, but then I found that things are not that simple, for if a m -digit number k belongs to S , it could happen that $k+m$ does not. So you can't directly say that "every m 'th m -digit number is in S ".

• *References:*

- ◆ *What is the approximating density of this sequence?*
 ◇ *From:* MuTsun Tsai
- ◆ *Re: What is the approximating density of this sequence?*
 ◇ *From:* Robert Israel
- Prev by Date: *Re: I have just rediscovered Fermat's proof of the Last Theorem*
- Next by Date: *Re: pumping lemma for CFL*
- Previous by thread: *Re: What is the approximating density of this sequence?*
- Next by thread: *central subgroup*
- Index(es):
 - ◆ *Date*
 - ◆ *Thread*