

Re: problem of arithmetic modulo

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- *From:* "Cat" <Ct@xxxxxxxxxx>
 - *Date:* Tue, 22 Jan 2008 15:49:40 +0100
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Rainer Rosenthal <r.rosenthal@xxxxxx> a écrit dans le message :
5vmbh9F1muj3IU1@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

Bill wrote:

but this is not the case with modulo 7.
 $10^0=1[7]$, $10^1=3[7]$, $10^2=2[7]$, $10^3=6$, $10^4=4$, $10^5=5$, $10^6=1$ and so

on

[modulo 7]

Please write some more terms of the "and so on". Won't be that random as you seem to expect. Draw your conclusions.

Regards,
Rainer

I know it's not random.
But how do you compute c modulo 7 with $c = \text{sum}(a_i)$
where a_i are the digits of the number 3^{1000} ?
It doesn't seem as straightforward as with c modulo 3.
I even wonder if it's possible to solve the problem.
Regards
Bill