

Re: Anyone want to work for Google?

Source: <http://sci.tech-archive.net/Archive/sci.math/2004-07/2856.html>

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Date: 07/12/04

Date: 12 Jul 2004 16:52:44 +0300

Robin Chapman <rjc@ivorynospatmtower.freemove.co.uk> writes:

> > Upon making it to the second level of questioning, that is if you are
> > able to, you are hit up with this question as seen on 7427466391.com:

> >

> > $f(1) = 7182818284$

>

> digits 1–10 of the decimal expansion of $\exp(1)$

You zero-counter you!

I'd say the first digit of the decimal expansion e was '2'

So that 7 is the 2nd digit.

> > $f(2) = 8182845904$

>

> digits 5–14 of the decimal expansion of $\exp(1)$

6

> > $f(3) = 8747135266$

>

> digits 23–32 of the decimal expansion of $\exp(1)$

24

Ooh, ooh, factorial?

> > $f(4) = 7427466391$

>

> digits 99–108 of the decimal expansion of $\exp(1)$

100

bugger.

> > $f(5) = \underline{\hspace{2cm}}$

>

> some early length-10 block of digits in the decimal

sci.math: Re: Anyone want to work for Google?

> *expansion of exp(1)?*

I thought this was tempting:

1 | index(f(1))

2 | index(f(2))

3 | index(f(3))

4 | index(f(4))

Alas, it's useless, and doesn't hold true again until f(10) at index 430,
f(32) at 1120, and f(43) at 1419.

Phil

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1st bug in MS win2k source code found after 20 minutes: scanline.cpp
2nd and 3rd bug found after 10 more minutes: gethost.c
Both non-exploitable. (The 2nd/3rd ones might be, depending on the CRTL)