## A NUMBER PROBLEM

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The last digit of one number is 6 . Take away this digit and put it in front of a given number.

Thus a new number can be formed which will be 6 times bigger than the original one.

What smallest of all possible numbers satisfies this condition?

Simple Solution


The number to be found is:

1016949152542372881355932203389830508474576271186440677966 .

Find this number in another way using the Fibonacci terms.
Remark. $2,8,34,144, \cdots$, etc. are third, sixth, ninth, twelfth, $\cdots$ (general: $\mathrm{F}_{3 \mathrm{n}}$, where $\mathrm{n}=1,2,3,4, \cdots$ ), etc. terms of Fibonacci sequence $1,1,2,3,5, \cdots$.

The solution by using the Fibonacci numbers is given on the following page.
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