Project Euler #104: Pandigital Fibonacci ends

This problem is a programming version of Problem 104 from projecteuler.net

The Generalized Fibonacci sequence is defined by the recurrence relation:

It turns out that F_{541} , which contains \$113\$ digits, is the first Fibonacci number for which the last nine digits are \$1-9\$ pandigital (contain all the digits \$1\$ to \$9\$, but not necessarily in order). And F_{2749} , which contains \$575\$ digits, is the first Fibonacci number for which the first nine digits are \$1-9\$ pandigital.

Given that \$G_n\$ is the first Generalized Fibonacci number for which the first \$k\$ digits AND the last \$k\$ digits are \$1-k\$ pandigital, find \$n\$.

NOTE For this problem if you don't find a solution with in \$n \le 2 \times 10^6\$, print no solution.

Input Format

First line of input contains \$a\$, second line contains \$b\$ and the third line contains \$k\$.

Constraints

\$1 \le a \le b \le 9\$ \$1 \le k \le 9\$

Output Format

Print the value \$n\$ where \$G n\$ is the required generalized fibonacci term.

Sample Input#00

1 1 1

Sample Output#00

1

Sample Input#01

1 1 2

Sample Output#01

8