## 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:

$$
G_{n}=G_{n-1}+G_{n-2}, \text { where } G_{1}=a \text { and } G_{2}=b
$$

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 $n \leq 2 \times 10^{6}$, print no solution.

## Input Format

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

## Constraints

$1 \leq a \leq b \leq 9$
$1 \leq k \leq 9$

## Output Format

Print the value $n$ where $G_{n}$ is the required generalized fibonacci term.

## Sample Input

```
1
1
2
```


## Sample Output

