## Problem A: How do you add?

Larry is very bad at math - he usually uses a calculator, which worked well throughout college. Unforunately, he is now struck in a deserted island with his good buddy Ryan after a snowboarding accident. They're now trying to spend some time figuring out some good problems, and Ryan will eat Larry if he cannot answer, so his fate is up to you!

It's a very simple problem - given a number $\mathbf{N}$, how many ways can $\mathbf{K}$ numbers less than $\mathbf{N}$ add up to $\mathbf{N}$ ?

For example, for $\mathrm{N}=20$ and $\mathrm{K}=2$, there are 21 ways:
0+20

$1+19$
$2+18$
$3+17$
4+16
$5+15$
...
$18+2$
$19+1$
$20+0$

## Input

Each line will contain a pair of numbers $\mathbf{N}$ and $\mathbf{K} . \mathbf{N}$ and $\mathbf{K}$ will both be an integer from 1 to 100, inclusive. The input will terminate on 20 's.

## Output

Since Larry is only interested in the last few digits of the answer, for each pair of numbers $N$ and $K$, print a single number mod $1,000,000$ on a single line.

## Sample Input

202
202
00

## Sample Output

21
21

