## Primitive Calculator

Time Limit: 1.0s Memory Limit: 256M

Alim has a primitive calculator. It has only two buttons - digit and operation. Assume the current number on the calculator display is $C$. The digit button appends digit $X$ to the current number.
Formally, it replaces it with $10 \cdot C+X$. The operation button computes the following sum
$S=\sum_{i=0}^{i<K} C \cdot 10^{i}$
and replaces the current number on the display with $S$. Alim's friend Aslı is playing with the calculator. Initially the calculator displays number 0 (zero). First Aslı presses digit button $N$ times. Then he presses the operation button once. What is the number on the calculator display at the end of the day?

For example if $X=9, N=3, K=4$ then the result is $999+9990+99900+999000=1109889$.

## Input

Three integers $X, N, K$ separated with single spaces.

## Output

The result shown by the calculator.
Constraints $1 \leq X \leq 9,1 \leq N ; K, N+K \leq 10^{6}$.

## Samples

Input (stdin)

934

Output (stdout)

