## G. Mysterious numbers - 2

time limit per test: 2 seconds memory limit per test: 256 megabytes

input: standard input output: standard output

## Input

The only line of input contains three integers  $a_1$ ,  $a_2$ ,  $a_3$  ( $1 \le a_1$ ,  $a_2$ ,  $a_3 \le 20$ ), separated by spaces.

## Output

Output a single integer.

## **Examples**

input	
2 3 2	
output	

input	
13 14 1	
output	
14	

input	
14 5 9	
output	
464	

input	
17 18 3	
output	
53	