Problem G. Rotate

Time limit   2000 ms
Mem limit   1048576 kB

Problem Statement

Let xyz denote the 3-digit integer whose digits are x, y, z from left to right.

Given a 3-digit integer abc none of whose digits is 0, find $abc + bca + cab$.

Constraints

- abc is a 3-digit integer abc none of whose digits is 0.

Input

Input is given from Standard Input in the following format:

abc

Output

Print the answer.

Sample 1

Input	Output
123	666

We have $123 + 231 + 312 = 666$.

Sample 2

Input	Output
999	2997

We have $999 + 999 + 999 = 2997$.