

## Problem C. Square of Maximum Number

**Time limit** 1000 ms

**Mem limit** 131072 kB

A three-digit number is given. Rearrange its digits in such a way that the largest possible number is obtained. Then calculate the square of that largest number and print it.

### Input

A three-digit positive number is given.

### Output

Print the square of the largest number.

### Example

Input	Output
327	535824

### Explanation

From the digits of the number 327, we get the number 732. The square of this number is 535824.