

Check [Tutorial](#) tab to know how to solve.

Task

Read an integer N . For all non-negative integers $i < N$, print i^2 . See the sample for details.

Input Format

The first and only line contains the integer, N .

Constraints

$$1 \leq N \leq 20$$

Output Format

Print N lines, one corresponding to each i .

Sample Input 0

5

Sample Output 0

0
1
4
9
16