

Counting to Infinity

Don't let the title fool you: in this problem, all your program needs to do is to count as high as ten thousand. Specifically, it must read in the integer n and list all the integers from 1 to n in order.

Input

The input file will consist of a single integer, n . It is guaranteed that $1 \leq n \leq 10,000$.

Output

Your output file should consist of the integers from 1 to n in increasing order, separated by line breaks.

Sample Input 1

8

Sample Output 1

1
2
3
4
5
6
7
8