

Problem C

## Arithmetic Sequence?

Time limit: 1s  
Memory Limit: 8MB

Given a number N, print a sequence of N numbers which has the following properties:

1. The first number is always 1
2. The numbers will be an increasing sequence
3. The difference between the current number and the next one is increased by 1 (the difference starts from 1), every time you print the current number.

Refer to the sample input for clarity.

### Input

The first line of input will be a number N. N will be more than 0 and less than 1000.

### Output

Print a sequence of N numbers with the described properties. **WARNING:** You are not allowed to print additional space after the last number of the sequence.

1st Sample Input
11
Output for 1st Sample Input
1 2 4 7 11 16 22 29 37 46 56

2nd Sample Input
20
Output for 2nd Sample Input

1 2 4 7 11 16 22 29 37 46 56 67 79 92 106 121 137 154 172 191
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**Note:** Always print a newline (\n) at the end of the answer.