

# Sequence

## Problem ID: a05p02sequence

Design an algorithm that generates the first  $n$  numbers in the following sequence: 1, 2, 3, 6, 11, 20, 37, ...

### Input

Input consists of one integer  $n$ , the length of the sequence that should be generated, where  $1 \leq n \leq 100$ .

### Output

Output consists of  $i$  lines where the  $i$  -  $th$  line contains one number, the  $i$  -  $th$  number in the sequence.

#### Sample Input 1

7

#### Sample Output 1

1  
2  
3  
6  
11  
20  
37

#### Sample Input 2

15

#### Sample Output 2

1  
2  
3  
6  
11  
20  
37  
68  
125  
230  
423  
778  
1431  
2632  
4841