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## Next one in the series

P40593\_en

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Consider the series

$$0, 0 + 1, 0 + 1 + 2, 0 + 1 + 2 + 3, 0 + 1 + 2 + 3 + 4, \dots = 0, 1, 3, 6, 10, \dots$$

Write a program that, for every given natural number  $n$ , prints the first number of the series greater than or equal to  $n$ .

### Input

Input consists of a sequence of natural numbers  $n$ .

### Output

For every  $n$ , print the first number of the series  $0, 1, 3, 6, \dots$  that is greater than or equal to  $n$ .

#### Sample input

6  
7  
1  
2

#### Sample output

6  
10  
1  
3

### Problem information

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