
Next one in the series

P40593_en

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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