Time limit: 0.16s **Memory limit:** 1G Java: 0.6s Python: 0.6s

Consider the following function:

```
function(N):
# in some programming languages, 64-bit integers will be required to represent "threshold"
threshold = N*(N-1)/2
K = 1
# in some programming languages, 64-bit integers will be required to represent "count"
count = 0
while K < N:
    L = K+1
    print K
    while L <= N:
        count += 1
        L += 1
        if 2 * count >= threshold:
            exit function
    K += 1
```

Given N, compute the last number this function prints out.

Constraints

 $2 \leq N \leq 10^9$

Input Specification

The input consists of a single line containing the integer N.

Output Specification

Print, on a single line, the last number this function will print out.

Sample Input 1

1

Sample Input 2

7

Sample Output 2

2

Sample Input 3

10

Sample Output 3

3

Sample Input 4

1919

Sample Output 4

562

Sample Input 5

Sample Output 5

85225144