

Problem Q. Multiplication Table

Time limit 1000 ms

Mem limit 524288 kB

Find the middle element when the numbers in an $n \times n$ multiplication table are sorted in increasing order. It is assumed that n is odd.

For example, the 3×3 multiplication table is as follows:

1	2	3
2	4	6
3	6	9

The numbers in increasing order are $[1, 2, 2, 3, 3, 4, 6, 6, 9]$, so the answer is 3.

Input

The only input line has an integer n .

Output

Print one integer: the answer to the task.

Constraints

- $1 \leq n < 10^6$

Example

Input	Output
3	3