

## B. Segments

time limit per test: 2 seconds  
memory limit per test: 256 megabytes  
input: standard input  
output: standard output

You are given an integer  $N$ . Consider all possible segments on the coordinate axis with endpoints at integer points with coordinates between 0 and  $N$ , inclusive; there will be of them.

You want to draw these segments in several layers so that in each layer the segments don't overlap (they might touch at the endpoints though). You **can not** move the segments to a different location on the coordinate axis.

Find the minimal number of layers you have to use for the given  $N$ .

### Input

The only input line contains a single integer  $N$  ( $1 \leq N \leq 100$ ).

### Output

Output a single integer - the minimal number of layers required to draw the segments for the given  $N$ .

### Examples

input
2
output
2

input
3
output
4

input
4
output
6

### Note

As an example, here are the segments and their optimal arrangement into layers for  $N = 4$ .