# A. Maximum in Table

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

output: standard output

An  $n \times n$  table a is defined as follows:

- The first row and the first column contain ones, that is:  $a_{i,1} = a_{1,i} = 1$  for all i = 1, 2, ..., n.
- Each of the remaining numbers in the table is equal to the sum of the number above it and the number to the left of it. In other words, the remaining elements are defined by the formula  $a_{i,j} = a_{i-1,j} + a_{i,j-1}$ .

These conditions define all the values in the table.

You are given a number n. You need to determine the maximum value in the  $n \times n$  table defined by the rules above.

### Input

The only line of input contains a positive integer n ( $1 \le n \le 10$ ) — the number of rows and columns of the table.

## **Output**

Print a single line containing a positive integer m — the maximum value in the table.

#### **Examples**

input	
1	
output	
1	

input	
5	
output	

#### **Note**

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In the second test the rows of the table look as follows: