
Recursive powers of 2**X87649_en**

Write a **RECURSIVE** function with name `two_to_n` that receives as a parameter an integer $0 \leq n \leq 30$ and returns the value of 2^n . Also, write a program that reads several n 's and prints the result of the function for each of them

Note: A program accepted by the judge that solves the problem without using a **RECURSIVE** function would be considered invalid and would have a final score 0 in a real exam.

Note: Recall that at this point of the course using vectors or any other method to store massive data is not allowed.

Exam score: 2.5 **Automatic part:** 100%

Input

The input is a sequence of integers n such that $0 \leq n \leq 30$.

Output

For every integer n of the input write, in a separate line, the value of 2^n .

Sample input

0 1 2 3 4 5

Sample output

1
2
4
8
16
32

Problem information

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