### Fibonacci

## Description

Remember Fibonacci numbers? The fibonacci sequence is defined as f(0) = 1, f(1) = 1, f(n) = f(n-1) + f(n-2). It was originally developed as a means of calculating the size of a population of rabbits after n years or something like that. Now, it's a famous CS and math nerd thing for some reason.

Honestly, I think it's more impressive if you know the first 10 fibonacci numbers than if you know 10 digits of pi.



## Input

The first line will contain a single integer **T** (1 < **T** < 101), which will be the number of lines in the input file. The next **T** lines will contain a number **N** (1 < T < 55), which is the n value in f(n)

## Output

For each number T, output the value of f(N) to the console..

### **Examples**

# 6 1 2 3 4 5 6 **Output** 1 2 3 5 8

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Input