Fibonacci numbers

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English version

You are given number **n** and your task is to calculate **n**th Fibonacci number.

Input

The first line of the standard input contains one integer t (t<101) which is number of test cases.

In each of the next t lines there is one number **n** (n<71).

Output

For every test case print one number which is **n**th Fibonacci number.

Example

Input:

2

10

20

Output:

55

6765