

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