

# Even Fibonacci Numbers Sum

Submissions: 7800 (/problem\_submissions.php?pid=2397) Accuracy: 33.39% Difficulty: Easy  
(https://practice.geeksforgeeks.org/Easy/0/0/) Marks: 2

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Given a number N find the sum of all the even valued terms in the fibonacci sequence less than or equal to N.

The first few terms of Fibonacci Numbers

(<http://www.geeksforgeeks.org/program-for-nth-fibonacci-number/>) are, 1, 1, **2**, 3, 5, **8**, 13, 21, **34**, 55, 89, **144**, 233 ,... (Even numbers are highlighted).

## Input:

The first line of input contains an integer T denoting the number of test cases. Then T test cases follow. The first line of each test case contains the integer N.

## Output:

Print the sum of all the even valued terms in the fibonacci sequence less than or equal to given N. Print the answer for each test case in a new line.

## Constraints:

$1 \leq T \leq 100$

$1 \leq N \leq 10^6$

## Example:

### Input:

2

8

400

### Output:

10

188