# Sum of Factors

Find the sum of the factors of a number including 1 and the given number.

## Input

Number of test cases T followed by T lines of number n.
0 < T <= 5000
0 < n <= 999999999
*Note: The number will not have a very large prime factor.*

## Output

The sum of the factors for each test case.

## Example

**Input:**
2
6
5

**Output:**
12
6