

# Minimum sum of factors

Given a number, find minimum sum of its factors.

## Input:

First line consists of T, test cases. Only line of every test case consists of an integer N

## Output:

Single line output, print the Sum of factors.

## Constraints:

$$1 \leq T \leq 100000$$

$$1 \leq N \leq 100000$$

## Example:

### Input:

2

11

12

### Output:

12

7

## Explanation:

Following are different ways to factorize 12 and sum of factors in different ways.

$$12 = 12 * 1 = 12 + 1 = 13$$

$$12 = 2 * 6 = 2 + 6 = 8$$

$$12 = 3 * 4 = 3 + 4 = 7$$

$$12 = 2 * 2 * 3 = 2 + 2 + 3 = 7$$

Therefore minimum sum is 7