

3223 - Sum of Factors

Description

Given a natural number n ($1 \leq n \leq 1e6$), please find the sum of the factors of a number including 1 and the given number.

Input specification

An integer stating the number of test cases (equal to 500), and that many lines follow, each containing one integer between 2 and $1e6$ inclusive.

Output specification

One integer each line: the divisor summation of the integer given respectively.

Sample input

```
2
6
5
```

Sample output

```
12
6
```

Hint(s)

Source	SPOJ [tutorial]
Added by	ypizarroza
Addition date	2015-03-25
Time limit (ms)	5000
Test limit (ms)	1500
Memory limit (kb)	268435456
Output limit (mb)	64