

## CSE316 Online 3

A *Faulty* number is number who is strictly less than the sum of its factors other than 1 and itself.

For example, 8 has three factors that fill the criteria: 2, 4;

$2+4 = 6 < 8$ , so, 8 is *not* a *Faulty* number.

Similarly, 12 has four factors that fill the criteria: 2, 3, 4, 6;

$2+3+4+6 = 15 > 12$ , so, 12 is a *Faulty* number.

You would be given a positive integer as input, and you have to find how many *Faulty* numbers are there from 1 to that number (inclusive).

*Sample I/O:*

- Input: 20

Output: 3

- Input: 25

Output: 4