Problem statement Send feedback

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You are given an integer 'n'.
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Function 'sumOfDivisors(n)' is defined as the sum of all divisors of 'n'.

Find the sum of 'sumOfDivisors(i)' for all 'i' from 1 to 'n'.

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Example:
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Input: 'n' = 5

Output: 21

Explanation:
We need to find the sum of 'sumOfDivisors(i)' for all 'i' from 1 to 5.
    'sumOfDivisors(1)' = 1
    'sumOfDivisors(2)' = 2 + 1 = 3
    'sumOfDivisors(3)' = 3 + 1 = 4
    'sumOfDivisors(4)' = 4 + 2 +1 = 7
    'sumOfDivisors(5)' = 5 + 1 = 6

Therefore our answer is sumOfDivisors(1) + sumOfDivisors(2) + sumOfDivisors(3) + sumOfDivisors(4) + sumOfDivisors(5) = 1 + 3 + 4 + 7 + 6 = 21.
```

Detailed explanation (Input/output format, Notes, Images)

Sample Input 1:

3

Sample Output 1:

8

Explanation of sample output 1:

```
We need to find sumOfDivisors(1) + sumOfDivisors(2) + sumOfDivisors(3). sumOfDivisors(1) = 1 sumOfDivisors(2) = 2 + 1 = 3 sumOfDivisors(3) = 3 + 1 = 4 Therefore, the answer is sumOfDivisors(1) + sumOfDivisors(2) + sumOfDivisors(3) = 1 + 3 + 4 = 8.
```

Sample Input 2:

10

Sample Output 2:

87

Expected Time Complexity:

Try to solve this in O(sqrt('n')).

Constraints:

1 <= 'n' <= 3*10^4

Time Limit: 1 sec