T 114 - Equal Bases

Problem	Submissions	Leaderboard	Discussions

Given a decimal number N, you need to find the number of bases 1 < b <= n such that when the number N is represented in base 'b', it ends in a zero.

Input Format

Input contains only one number, N.

Constraints

1 <= N <= 10000

Output Format

Output one number, the number of bases b such that when number N is represented in base b, the number contains a trailing zero.

Sample Input 0

```
12
```

Sample Output 0

```
5
```
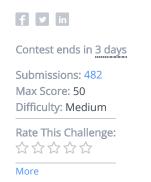
Explanation 0

Base : Number :
2 1100
3 110
4 30
5 22
6 20
7 15
8 14
9 13
10 12
11 11
12 10

12 ends with a zero in 5 different number systems - 2,3,4,6 and 12. Hence the answer is 12.

f t in

Contest ends in 3 days

Submissions: 482
Max Score: 50
Difficulty: Medium

Rate This Challenge:
☆ ☆ ☆ ☆ ☆

More

Current Buffer (saved locally, editable)   Ada ⌄

```
1  with Ada.Text_IO, Ada.Integer_Text_IO;
2  use Ada;
3
4  procedure Solution is
5  -- Enter your code here. Read input from STDIN. Print output to STDOUT
6
7
8  end Solution
```

Line: 1 Col: 1

⬆ Upload Code as File   ☐ Test against custom input

Run Code

Submit Code