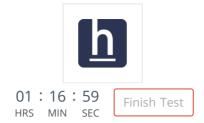
Programming Practice Challenge

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Programming Practice Challenge

LIVE

Sep 21, 2016, 03:10 PM IST

INSTRUCTIONS PROBLEMS SUBMISSIONS LEADERBOARD ANALYTICS JUDGE

← Problems / Little Shino and Common factors

Little Shino and Common factors

Little Shino loves maths. Today her teacher gave her two integers. Shino is now wondering how many integers can divide both the numbers. She is busy with her assignments. Help her to solve the problem.

Input:

First line of the input file contains two integers, a and b.

Output:

Print the **number of common factors** of a and b.

Constraints:

 $1 \le a,b \le 10^{12}$

Max. Marks: 100



Explanation

The common factors of 10 and 15 are 1 and 5.

Time Limit:1.0 sec(s) for each input file.Memory Limit:256 MBSource Limit:1024 KBMarking Scheme:Marks are awarded if any testcase passes.

Allowed Languages: C, C++, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, JavaScript(Rhino),

JavaScript(Node.js), Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, R(RScript), Racket, Ruby, Rust, Scala, Swift, Visual Basic

CODE EDITOR

```
Enter your code or Upload your code as file.
                                                Python (python 2.7.6)
                                         Save
    # A function that returns gcd of a & b
 2
    def gcd(x, y):
 3
 4
        This function implements the Euclidian algorithm
 5
        to find G.C.D. of two numbers
 6
 7
      while(y):
 8
        x, y = y, x\%y
 9
10
      return x
11
12
    # Starting point
    a, b = (int(num) for num in raw_input().split())
13
14
    common_factors = 1 # 1 is divisor of all numbers
15
    gcd_number = gcd(a, b)
16
17
    if qcd_number != 1:
18
        common factors += 1
19
20
   i = 2
    while i < gcd_number:</pre>
21
22
        if (a \% i) == 0 and (b \% i == 0):
23
             common factors += 1
24
        i += 1
25
26
   print common_factors
27
                                                                              12:17
```

■ Provide custom input

♀ Press Ctrl-space for autocomplete suggestions.

COMPILE & TEST

SUBMIT

```
RESULT: Sample Test Cases Passed 
Time (sec) Memory (KiB) Language
0.112932 64 Python

Input
```

10 15

Your Code's Output

Expected Correct Output

Compilation Log

Compiled successfully.

- Tip: You can submit any number of times you want. Your best submission is considered for computing total score.
- Support: For any queries or issues, write to "Lavish Aggarwal" lavish@hackerearth.com.





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COMMENTS (174) 2



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Chinnapureddy Mullangi 4 months ago

It will be good if we can check failed testcases input and output. This will help in correction

▲ 16 votes • Reply • Message • Permalink



Abhishek Kumar & Edited 8 months ago

all the other online and offline compiler gave correct result on sample input but here it says wrong answer

put light on my issue https://www.hackerearth.com/users/lavish205/" target="_blank">@Lavish Aggarwal

▲ 5 votes • Reply • Message • Permalink



Shubham Gupta 4 Admin 8 months ago

Sample input is for understanding the problem. Your code is run against hidden test cases. So, if you are getting wrong answer that means your code is failing the hidden test cases.

▲ 0 votes • Reply • Permalink



Abhishek Kumar 8 months ago

it is giving wrong for sample test only

▲ 1 vote • Reply • Message • Permalink



Abhishek Kumar 8 months ago

i think there is something wrong with this compiler or else its not good with c language ▲ 1 vote • Reply • Message • Permalink



Shubham Gupta 4 Admin 8 months ago

The compiler is working fine. Your code is giving correct output for the sample.