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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » **The Joy of Computing using Python (course)**

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| Announcements (announcements) | **About the Course (preview)** | Ask a Question (forum) | Progress (student/home) | Mentor (student/mentor) |

Course outline

How does an NPTEL online course work?

Week 1

Week 2

Week 3

○ Lists Part 1 : Introduction (unit?unit=57&lesson=58)

○ Lists Part 2 : Manipulation (unit?unit=57&lesson=59)

○ Lists Part 3 : Operations (unit?unit=57&lesson=60)

○ Lists Part 4 : Slicing (unit? unit=57&lesson=61)

○ Loops and Conditionals : Fizzbuzz 01 (unit? unit=57&lesson=62)

○ Loops and Conditionals : Fizzbuzz 02 (unit? unit=57&lesson=63)

○ Crowd Computing - Just estimate 01 (unit? unit=57&lesson=64)

○ Crowd Computing - Just estimate 02 (unit? unit=57&lesson=65)

○ Crowd Computing - Just estimate 03 (unit? unit=57&lesson=66)

○ Crowd Computing - Just estimate 04 (unit? unit=57&lesson=67)

○ Crowd Computing - Just estimate 05 (unit? unit=57&lesson=68)

○ Crowd Computing - Just estimate 06 (unit? unit=57&lesson=69)

○ Permutations - Jumbled Words 01 (unit? unit=57&lesson=70)

○ Permutations - Jumbled Words 02 (unit? unit=57&lesson=71)

○ Permutations - Jumbled Words 03 (unit? unit=57&lesson=72)

Programming Assignment 3 : Divisibility

Due on 2020-10-08, 23:59 IST

In this program, create a list of numbers from 1 to 50 named **list_1**. The numbers should be present in the increasing order: Ex **list_1 = [1,2,3,4,5,....,50]**
i.e. index zero should be 1, index one should be 2, index two should be 3 and so on.

Given an input let's say **a**, you have to print the **number** of elements of **list_1** which are divisible by **a, excluding** the element which is equal to **a**.

Input:
Number **a**

Output:
In a single line, the number of elements (i.e. the count and not the elements) which are divisible by **a**.

Example:
Input:

24

Output:
1

Explanation: Since there is only one number, i.e. 48 which is divisible by 24 and is in the **list_1**. We have to exclude the element 24 of **list_1** because it is equal to the input.

Select the Language for this assignment. [Python3 ⌄]

```
1  a = int(input())
2
3  def createList(r1, r2):
4      return [item for item in range(r1, r2+1)]
5
6  list_1 = createList(1, 50)
7
8  count = 0
9
10 for element in list_1:
11   if(element != a):
12     if(element % a == 0):
13       count = count + 1
14
15 print(count)
```

You may submit any number of times before the due date. The final submission will be considered for grading.
This assignment has Public Test cases. Please click on "Compile & Run" button to see the status of Public test cases. Assignment will be evaluated only after submitting using Submit button below. If you only save as or compile and run the Program , your assignment will not be graded and you will not see your score after the deadline.

| Save as Draft | Compile & Run | Submit | Reset |

Compilation : Passed

Public Test Cases: 3 / 3 Passed

Note: These tests may not be considered while scoring. Know more.

| Public Test Cases | Input | Expected Output | Actual Output | Status |

Test Case 1	32	0	0\n	Passed after ignoring Presentation Error
Test Case 2	12	3	3\n	Passed after ignoring Presentation Error
Test Case 3	13	2	2\n	Passed after ignoring Presentation Error

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