

## Mock Test > joshnavipodapati@gmail.com

Full Name: Joshnavi Podapati Email: joshnavipodapati@gmail.com Test Name: **Mock Test** Taken On: 23 Aug 2025 08:29:30 IST Time Taken: 18 min 47 sec/ 90 min Invited by: Ankush 23 Aug 2025 08:29:13 IST Invited on: Skills Score: Tags Score: Algorithms 280/280 Core CS 280/280 Data Structures 105/105 Easy 280/280 LCM 105/105 Least Common Multiple 105/105 Math 105/105 Problem Solving 105/105 Strings 175/175 gcd 105/105 greatest common divisor 105/105 problem-solving 280/280

sets 105/105

100%

scored in **Mock Test** in 18 min 47 sec on 23 Aug 2025 08:29:30 IST

## **Recruiter/Team Comments:**

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Palindrome Index > Coding	4 min 18 sec	105/ 105	<b>⊘</b>
Q2	Between Two Sets > Coding	5 min 40 sec	105/ 105	<b>⊘</b>
Q3	Anagram > Coding	5 min 59 sec	70/ 70	<b>⊘</b>



Given a string of lowercase letters in the range ascii[a-z], determine the index of a character that can be removed to make the string a palindrome. There may be more than one solution, but any will do. If the word is already a palindrome or there is no solution, return -1. Otherwise, return the index of a character to remove.

#### Example

```
s = "bcbc"
```

Either remove 'b' at index 0 or 'c' at index 3.

### **Function Description**

Complete the palindromeIndex function in the editor below.

palindromeIndex has the following parameter(s):

• string s: a string to analyze

#### Returns

• *int:* the index of the character to remove or -1

#### **Input Format**

The first line contains an integer  ${\it q}$ , the number of queries.

Each of the next q lines contains a query string s.

#### **Constraints**

- $1 \le q \le 20$
- $1 \le \text{length of } s \le 10^5 + 5$
- All characters are in the range ascii[a-z].

## Sample Input

```
STDIN Function

-----

3     q = 3

aaab     s = 'aaab' (first query)

baa     s = 'baa' (second query)

aaa     s = 'aaa' (third query)
```

## **Sample Output**

```
3
0
-1
```

#### **Explanation**

Query 1: "aaab"

Removing b' at index b' results in a palindrome, so return b'.

Query 2: "baa"

Removing 'b' at index 0 results in a palindrome, so return 0.

Query 3: "aaa"

This string is already a palindrome, so return -1. Removing any one of the characters would result in a palindrome, but this test comes first.

Note: The custom checker logic for this challenge is available here.

#### **CANDIDATE ANSWER**

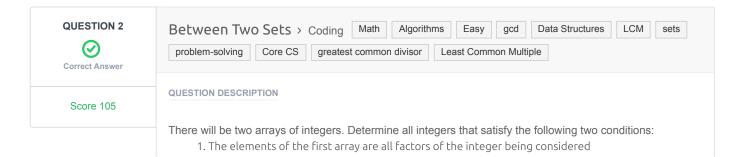
Language used: Python 3

2/7

```
2 # Complete the 'palindromeIndex' function below.
 3 #
 4 # The function is expected to return an INTEGER.
 5 # The function accepts STRING s as parameter.
6 #
 8 def palindromeIndex(s):
       n=len(s)
      for left in range (n//2):
          right=n-1-left
          if s[left]!=s[right]:
               if validPalindrome(s,left,right-1):
14
                   return right
               if validPalindrome(s,left+1,right):
                   return left
               return -1
       return -1
19 def validPalindrome(text, starting, ending):
       length=ending-starting+1
      for k in range(length//2):
          if text[starting+k]!=text[ending-k]:
              return False
24
      return True
```

TEOTOAGE	DIEELOUILTY	TVDE	OTATUO	00000	TIME TAKEN	MEMORYLICER
TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	Success	0	0.0298 sec	10 KB
Testcase 2	Medium	Hidden case	Success	5	0.0341 sec	10.1 KB
Testcase 3	Medium	Hidden case	Success	5	0.0243 sec	10.3 KB
Testcase 4	Medium	Hidden case	Success	5	0.0261 sec	10.3 KB
Testcase 5	Medium	Hidden case	Success	5	0.0236 sec	10.1 KB
Testcase 6	Medium	Hidden case	Success	5	0.0479 sec	10.4 KB
Testcase 7	Medium	Hidden case	Success	5	0.0477 sec	10.3 KB
Testcase 8	Medium	Hidden case	Success	5	0.0489 sec	10.3 KB
Testcase 9	Hard	Hidden case	Success	10	0.0326 sec	10.4 KB
Testcase 10	Hard	Hidden case	Success	10	0.0339 sec	10.4 KB
Testcase 11	Hard	Hidden case	Success	10	0.0368 sec	10.3 KB
Testcase 12	Hard	Hidden case	Success	10	0.0244 sec	10.1 KB
Testcase 13	Hard	Hidden case	Success	10	0.0321 sec	10.4 KB
Testcase 14	Hard	Hidden case	Success	10	0.0326 sec	10.5 KB
Testcase 15	Hard	Hidden case	Success	10	0.0367 sec	10.4 KB

No Comments



2. The integer being considered is a factor of all elements of the second array

These numbers are referred to as being between the two arrays. Determine how many such numbers exist.

#### Example

```
a = [2, 6]
b = [24, 36]
```

There are two numbers between the arrays: 6 and 12.

```
6\%2 = 0, 6\%6 = 0, 24\%6 = 0 and 36\%6 = 0 for the first value.
```

$$12\%2 = 0$$
,  $12\%6 = 0$  and  $24\%12 = 0$ ,  $36\%12 = 0$  for the second value. Return 2.

## **Function Description**

Complete the *getTotalX* function in the editor below. It should return the number of integers that are betwen the sets.

getTotalX has the following parameter(s):

- int a[n]: an array of integers
- int b[m]: an array of integers

#### Raturns

• int: the number of integers that are between the sets

## **Input Format**

The first line contains two space-separated integers, n and m, the number of elements in arrays a and b. The second line contains n distinct space-separated integers a[i] where  $0 \le i < n$ .

The third line contains m distinct space-separated integers b[j] where  $0 \leq j < m$ .

#### Constraints

- $1 \le n, m \le 10$
- $1 \le a[i] \le 100$
- $1 \le b[j] \le 100$

#### Sample Input

```
2 3
2 4
16 32 96
```

#### **Sample Output**

3

## **Explanation**

2 and 4 divide evenly into 4, 8, 12 and 16.

- 4, 8 and 16 divide evenly into 16, 32, 96.
- 4, 8 and 16 are the only three numbers for which each element of a is a factor and each is a factor of all elements of b.

#### **CANDIDATE ANSWER**

## Language used: Python 3

```
1
2 #
3 # Complete the 'getTotalX' function below.
4 #
5 # The function is expected to return an INTEGER.
6 # The function accepts following parameters:
7 # 1. INTEGER_ARRAY a
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	Success	0	0.0291 sec	10.3 KB
Testcase 2	Easy	Hidden case	Success	15	0.0245 sec	10.1 KB
Testcase 3	Easy	Hidden case	Success	15	0.0275 sec	10.3 KB
Testcase 4	Easy	Hidden case	Success	15	0.026 sec	10.1 KB
Testcase 5	Easy	Hidden case	Success	15	0.0252 sec	10.3 KB
Testcase 6	Easy	Hidden case	Success	15	0.023 sec	10.3 KB
Testcase 7	Easy	Hidden case	Success	15	0.0235 sec	10.3 KB
Testcase 8	Easy	Hidden case	Success	15	0.0342 sec	10.3 KB
Testcase 9	Easy	Sample case	Success	0	0.0334 sec	10.1 KB





Score 70

Anagram > Coding

No Comments

Strings Algorithms

Easy problem-solving

Core CS

#### QUESTION DESCRIPTION

Two words are *anagrams* of one another if their letters can be rearranged to form the other word.

Given a string, split it into two contiguous substrings of equal length. Determine the minimum number of characters to change to make the two substrings into anagrams of one another.

### Example

## s = abccde

Break  $\boldsymbol{s}$  into two parts: 'abc' and 'cde'. Note that all letters have been used, the substrings are contiguous and their lengths are equal. Now you can change 'a' and 'b' in the first substring to 'd' and 'e' to have 'dec' and 'cde' which are anagrams. Two changes were necessary.

# **Function Description**

Complete the anagram function in the editor below.

anagram has the following parameter(s):

• string s: a string

#### Returns

• int: the minimum number of characters to change or -1.

## **Input Format**

The first line will contain an integer, q, the number of test cases.

Each test case will contain a string s.

#### **Constraints**

- $1 \le q \le 100$
- $1 \le |s| \le 10^4$
- $\boldsymbol{s}$  consists only of characters in the range ascii[a-z].

## Sample Input

```
6
aaabbb
ab
abc
mnop
xyyx
xaxbbbxx
```

## **Sample Output**

```
3
1
-1
2
0
1
```

### **Explanation**

Test Case #01: We split s into two strings S1='aaa' and S2='bbb'. We have to replace all three characters from the first string with 'b' to make the strings anagrams.

Test Case #02: You have to replace 'a' with 'b', which will generate "bb".

Test Case #03: It is not possible for two strings of unequal length to be anagrams of one another.

Test Case #04: We have to replace both the characters of first string ("mn") to make it an anagram of the other one.

Test Case #05: S1 and S2 are already anagrams of one another.

Test Case #06: Here S1 = "xaxb" and S2 = "bbxx". You must replace 'a' from S1 with 'b' so that S1 = "xbxb".

## **CANDIDATE ANSWER**

## Language used: Python 3

```
#
3  # Complete the 'anagram' function below.
4  #
5  # The function is expected to return an INTEGER.
6  # The function accepts STRING s as parameter.
7  #
8
9  def anagram(s):
10    n=len(s)
11    if n%2!=0:
12        return -1
13    mid=n//2
14    left=s[:mid]
15    right=s[mid:]
```

```
16     freq=[0]*26
17     for c in left:
18         freq[ord(c)-97]+=1
19     for c in right:
20         idx=ord(c)-97
21         if freq[idx]>0:
22               freq[idx]-=1
23         return sum(freq)
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Hidden case	Success	5	0.0344 sec	10.3 KB
Testcase 2	Easy	Hidden case	Success	5	0.0261 sec	10.3 KB
Testcase 3	Easy	Hidden case	Success	5	0.023 sec	10.3 KB
Testcase 4	Easy	Hidden case	Success	5	0.025 sec	10.3 KB
Testcase 5	Easy	Hidden case	Success	5	0.027 sec	10.1 KB
Testcase 6	Easy	Hidden case	Success	5	0.0931 sec	10.3 KB
Testcase 7	Easy	Hidden case	Success	5	0.0535 sec	10.3 KB
Testcase 8	Easy	Hidden case	Success	5	0.086 sec	10.3 KB
Testcase 9	Easy	Hidden case	Success	5	0.0456 sec	10.3 KB
Testcase 10	Easy	Hidden case	Success	5	0.0855 sec	10.3 KB
Testcase 11	Easy	Hidden case	Success	5	0.0443 sec	10 KB
Testcase 12	Easy	Hidden case	Success	5	0.1004 sec	10.1 KB
Testcase 13	Easy	Hidden case	Success	5	0.0838 sec	10.1 KB
Testcase 14	Easy	Hidden case	Success	5	0.0946 sec	10.3 KB
Testcase 15	Easy	Sample case	Success	0	0.0257 sec	10.3 KB
Testcase 16	Easy	Sample case	Success	0	0.0309 sec	10.1 KB
o Comments						

PDF generated at: 23 Aug 2025 03:19:55 UTC