

Mock Test > rsnitish01@gmail.com

Full Name: NITISH R S Email: rsnitish01@gmail.com Test Name: **Mock Test** Taken On: 15 Aug 2025 13:04:25 IST Time Taken: 65 min/ 90 min Invited by: Ankush 15 Aug 2025 13:04:05 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 65 min on 15 Aug 2025 13:04:25 IST

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Palindrome Index > Coding	20 min 56 sec	105/ 105	Ø
Q2	Between Two Sets > Coding	10 min 56 sec	105/ 105	Ø
Q3	Anagram > Coding	6 min 1 sec	70/70	⊘



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 3 results in a palindrome, so return 3.

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: C

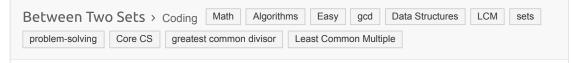
```
3 * Complete the 'palindromeIndex' function below.
4 *
5 * The function is expected to return an INTEGER.
6 * The function accepts STRING s as parameter.
7 */
8
9 int palindromeIndex(char* s) {
      int i=0, j=strlen(s)-1;
      while(i<j){
          if(s[i]!=s[j]){
             int a=i+1,b=j,tc=1;
14
             while(a<b){
                 if(s[a++]!=s[b--]){
                     tc=0;
                     break;
                 }
              }
              if(tc){
                return i;
              a=i,b=j-1,tc=1;
24
              while(a<b){
                if(s[a++]!=s[b--]){
                    tc=0;
                    break;
                 }
             }
              if(tc){
                 return j;
         }
         i++;
          j--;
     }
      return -1;
39 }
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	Success	0	0.007 sec	7.13 KB
Testcase 2	Medium	Hidden case	Success	5	0.0075 sec	7.38 KB
Testcase 3	Medium	Hidden case	Success	5	0.0071 sec	7.5 KB
Testcase 4	Medium	Hidden case	Success	5	0.0086 sec	7 KB
Testcase 5	Medium	Hidden case	Success	5	0.007 sec	7 KB
Testcase 6	Medium	Hidden case	Success	5	0.0083 sec	7.5 KB
Testcase 7	Medium	Hidden case	Success	5	0.0075 sec	7.5 KB
Testcase 8	Medium	Hidden case	Success	5	0.0078 sec	7.25 KB
Testcase 9	Hard	Hidden case	Success	10	0.0082 sec	7.13 KB
Testcase 10	Hard	Hidden case	Success	10	0.0082 sec	7.38 KB
Testcase 11	Hard	Hidden case	Success	10	0.0078 sec	7.25 KB
Testcase 12	Hard	Hidden case	Success	10	0.007 sec	7.25 KB
Testcase 13	Hard	Hidden case	Success	10	0.0079 sec	7.25 KB





Score 105



QUESTION DESCRIPTION

There will be two arrays of integers. Determine all integers that satisfy the following two conditions:

- 1. The elements of the first array are all factors of the integer being considered
- 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

Returns

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 $0 \le j < m$.

Constraints

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

Sample Input

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.

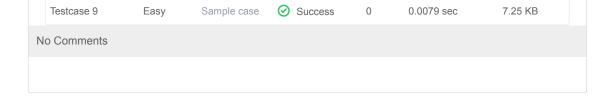
4, 8 and 16 are the only three numbers for which each element of a is a factor and each is a factor of all elements of b.

CANDIDATE ANSWER

Language used: C

```
2 /*
 3 * Complete the 'getTotalX' function below.
 5 * The function is expected to return an INTEGER.
 * The function accepts following parameters:
7 * 1. INTEGER ARRAY a
8 * 2. INTEGER ARRAY b
   */
int getTotalX(int a_count, int* a, int b_count, int* b) {
    int maxA=a[0], minB=b[0], r=0;
     for (int i=1; i < a count; i++) {
     if(a[i]>maxA){
              maxA=a[i];
     }
     for (int j=1; j < b_count; j++) {
     if(b[j]<minB){
             minB=b[j];
         }
     for (int x = maxA; x \le minB; x++) {
       int z = 1;
         for (int i = 0; i < a count && z; i++) {
             if (x % a[i]) {
                  z=0;
              }
         for (int j = 0; j < b count && z; j++) {
          if (b[j] % x) {
              z = 0;
          }
         }
          r += z;
      return r;
38 }
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	Success	0	0.0077 sec	7.38 KB
Testcase 2	Easy	Hidden case	Success	15	0.007 sec	7.38 KB
Testcase 3	Easy	Hidden case	Success	15	0.0119 sec	7.25 KB
Testcase 4	Easy	Hidden case	Success	15	0.0091 sec	6.88 KB
Testcase 5	Easy	Hidden case	Success	15	0.0083 sec	7 KB
Testcase 6	Easy	Hidden case	Success	15	0.0072 sec	6.88 KB
Testcase 7	Easy	Hidden case	Success	15	0.0072 sec	7.13 KB
Testcase 8	Easy	Hidden case	Success	15	0.0084 sec	7.25 KB







Score 70

Anagram > Coding 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 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

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

Sample Input

6
aaabbb
ab
abc
mnop
xyyx
xaxbbbxx

Sample Output

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: C

```
1 /*
2 * Complete the 'anagram' function below.
 4 * The function is expected to return an INTEGER.
   * The function accepts STRING s as parameter.
6 */
8 int anagram(char* s) {
     int l=strlen(s);
     if(1%2){
          return -1;
      int f[26]=\{0\}, c=0;
     for (int i = 0; i < 1/2; i++) {
           f[s[i]-'a']++;
     }
     for (int i = 1/2; i < 1; i++) {
       if (f[s[i]-'a'] > 0) {
              f[s[i]-'a']--;
         }
         else {
              C++;
          }
     }
      return c;
27 }
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Hidden case	Success	5	0.0073 sec	7.25 KB
Testcase 2	Easy	Hidden case	Success	5	0.0074 sec	7.5 KB
Testcase 3	Easy	Hidden case	Success	5	0.0112 sec	7 KB
Testcase 4	Easy	Hidden case	Success	5	0.0075 sec	7.38 KB
Testcase 5	Easy	Hidden case	Success	5	0.0094 sec	7.38 KB
Testcase 6	Easy	Hidden case	Success	5	0.0096 sec	8.13 KB
Testcase 7	Easy	Hidden case	Success	5	0.0084 sec	7.5 KB
Testcase 8	Easy	Hidden case	Success	5	0.0132 sec	8.25 KB

	Testcase 9	Easy	Hidden case	0	Success	5	0.0115 sec	7.75 KB	
	Testcase 10	Easy	Hidden case	0	Success	5	0.0102 sec	8.13 KB	
	Testcase 11	Easy	Hidden case	②	Success	5	0.0146 sec	7.5 KB	
	Testcase 12	Easy	Hidden case	Ø	Success	5	0.0144 sec	8.13 KB	
	Testcase 13	Easy	Hidden case	0	Success	5	0.0105 sec	8.13 KB	
	Testcase 14	Easy	Hidden case	0	Success	5	0.0282 sec	8.13 KB	
	Testcase 15	Easy	Sample case	0	Success	0	0.0116 sec	7.25 KB	
	Testcase 16	Easy	Sample case	0	Success	0	0.0069 sec	7 KB	
N	No Comments								

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