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Test Name: Mock Test

Taken On: 20 Aug 2025 16:53:17 IST

Time Taken: 45 min 3 sec/ 90 min

Invited by: Ankush

Invited on: 20 Aug 2025 16:53:07 IST

45 min 3 sec/ 90 min

Ankush
20 Aug 2025 16:53:07 IST

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

sets 105/105

greatest common divisor 105/105

problem-solving 280/280

100%

scored in **Mock Test** in 45 min 3 sec on 20 Aug 2025 16:53:17 IST

Recruiter/Team Comments:

No Comments.

Skills Score: Tags Score:

Plagiarism flagged

We have marked questions with suspected plagiarism below. Please review it in detail here -

	Question Description	Time Taken	Score	Status
Q1	Palindrome Index > Coding	11 min 39 sec	105/ 105	⊘
Q2	Between Two Sets > Coding	16 min 2 sec	105/ 105	(!)
Q3	Anagram > Coding	9 min 42 sec	70/70	\odot

QUESTION 1

Score 105

QUESTION DESCRIPTION

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 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 b' results in a palindrome, so return b'.

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.

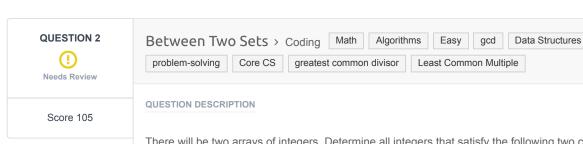
Language used: C

```
1 #include <stdio.h>
2 #include <string.h>
4 int palindromeIndex(char* s) {
      int l = 0, r = strlen(s) - 1;
      while (1 < r \&\& s[1] == s[r]) {
          1++;
8
          r--;
      }
      if (1 >= r) return -1;
      int 11 = 1 + 1, rr = r;
      int flag1 = 1, flag2 = 1;
      while (ll < rr) {
14
          if (s[ll] != s[rr]) {
              flag1 = 0;
              break;
          ll++; rr--;
     }
      11 = 1; rr = r - 1;
      while (ll < rr) {
         if (s[ll] != s[rr]) {
              flag2 = 0;
              break;
          ll++; rr--;
     }
      if (flag1) return 1;
      if (flag2) return r;
      return -1;
31 }
33 int main() {
34
     int q;
      scanf("%d", &q);
      char s[100005];
      for (int i = 0; i < q; i++) {
       scanf("%s", s);
         int result = palindromeIndex(s);
          printf("%d\n", result);
      return 0;
43 }
44
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	Success	0	0.0086 sec	7.38 KB
Testcase 2	Medium	Hidden case	Success	5	0.0073 sec	6.88 KB
Testcase 3	Medium	Hidden case	Success	5	0.0071 sec	7.13 KB
Testcase 4	Medium	Hidden case	Success	5	0.0071 sec	7.13 KB
Testcase 5	Medium	Hidden case	Success	5	0.0067 sec	7.38 KB
Testcase 6	Medium	Hidden case	Success	5	0.008 sec	7.25 KB
Testcase 7	Medium	Hidden case	Success	5	0.0078 sec	7.13 KB

Testcase	8 Medium	Hidden case	Success	5	0.01 sec	7.5 KB			
Testcase	9 Hard	Hidden case	Success	10	0.0084 sec	7.13 KB			
Testcase	10 Hard	Hidden case	Success	10	0.0081 sec	7.25 KB			
Testcase	11 Hard	Hidden case	Success	10	0.009 sec	7.38 KB			
Testcase	12 Hard	Hidden case	Success	10	0.0073 sec	7.13 KB			
Testcase	13 Hard	Hidden case	Success	10	0.008 sec	7.38 KB			
Testcase	14 Hard	Hidden case	Success	10	0.0096 sec	7.13 KB			
Testcase	15 Hard	Hidden case	Success	10	0.0087 sec	7.25 KB			
No Comments									

LCM



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 $0 \leq i < n$.

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

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

```
1 #include <stdio.h>
 3 int computeGCD(int number1, int number2) {
4
     while (number2 != 0) {
          int temp = number2;
          number2 = number1 % number2;
          number1 = temp;
     }
      return number1;
10 }
12 int computeLCM(int number1, int number2) {
       return (number1 / computeGCD(number1, number2)) * number2;
14 }
int countValidIntegers(int sizeA, int* setA, int sizeB, int* setB) {
     int lcmOfSetA = setA[0];
     for (int i = 1; i < sizeA; i++) {
          lcmOfSetA = computeLCM(lcmOfSetA, setA[i]);
     }
     int gcdOfSetB = setB[0];
     for (int i = 1; i < sizeB; i++) {
          gcdOfSetB = computeGCD(gcdOfSetB, setB[i]);
      int validCount = 0;
      for (int currentMultiple = lcmOfSetA; currentMultiple <= gcdOfSetB;</pre>
29 currentMultiple += lcmOfSetA) {
          if (gcdOfSetB % currentMultiple == 0) {
              validCount++;
     }
      return validCount;
36 }
38 int main() {
     int arraySize1, arraySize2;
      scanf("%d %d", &arraySize1, &arraySize2);
42
      int array1[arraySize1], array2[arraySize2];
      for (int i = 0; i < arraySize1; i++) {
```

```
45
           scanf("%d", &array1[i]);
46
47
      for (int i = 0; i < arraySize2; i++) {
          scanf("%d", &array2[i]);
      int finalResult = countValidIntegers(arraySize1, array1, arraySize2,
53 array2);
      printf("%d\n", finalResult);
      return 0;
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	Success	0	0.0088 sec	7.13 KB
Testcase 2	Easy	Hidden case	Success	15	0.0075 sec	7.5 KB
Testcase 3	Easy	Hidden case	Success	15	0.0078 sec	7.13 KB
Testcase 4	Easy	Hidden case	Success	15	0.0072 sec	7 KB
Testcase 5	Easy	Hidden case	Success	15	0.0073 sec	7.25 KB
Testcase 6	Easy	Hidden case	Success	15	0.0107 sec	7.25 KB
Testcase 7	Easy	Hidden case	Success	15	0.0081 sec	7.5 KB
Testcase 8	Easy	Hidden case	Success	15	0.0073 sec	7.38 KB
Testcase 9	Easy	Sample case	Success	0	0.0069 sec	7.13 KB

No Comments





Correct Answer

Score 70

Strings Algorithms Easy Anagram > Coding

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 8 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

```
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: C

```
#include <stdio.h>
#include <string.h>

int anagramChange(char *s) {
    int n = strlen(s);
    if (n % 2 != 0) return -1;

int m = n / 2, lc[26] = {0}, rc[26] = {0};
    for (int i = 0; i < m; i++) lc[s[i] - 'a']++;
    for (int i = m; i < n; i++) rc[s[i] - 'a']++;

int res = 0;
    for (int i = 0; i < 26; i++)
        if (lc[i] > rc[i]) res += lc[i] - rc[i];

return res;
}
```

```
int main() {
    int t;
    scanf("%d", &t);
    char str[10005];
    while (t--) {
        scanf("%s", str);
        printf("%d\n", anagramChange(str));
    }
    return 0;
}
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Hidden case	Success	5	0.0084 sec	7.38 KB
Testcase 2	Easy	Hidden case	Success	5	0.0081 sec	7.38 KB
Testcase 3	Easy	Hidden case	Success	5	0.008 sec	7.25 KB
Testcase 4	Easy	Hidden case	Success	5	0.008 sec	7.38 KB
Testcase 5	Easy	Hidden case	Success	5	0.0114 sec	7 KB
Testcase 6	Easy	Hidden case	Success	5	0.0204 sec	7.5 KB
Testcase 7	Easy	Hidden case	Success	5	0.0155 sec	7.25 KB
Testcase 8	Easy	Hidden case	Success	5	0.0233 sec	7.38 KB
Testcase 9	Easy	Hidden case	Success	5	0.0123 sec	7.25 KB
Testcase 10	Easy	Hidden case	Success	5	0.0115 sec	7.25 KB
Testcase 11	Easy	Hidden case	Success	5	0.0128 sec	7.25 KB
Testcase 12	Easy	Hidden case	Success	5	0.0214 sec	7.38 KB
Testcase 13	Easy	Hidden case	Success	5	0.0384 sec	7.5 KB
Testcase 14	Easy	Hidden case	Success	5	0.0119 sec	7.13 KB
Testcase 15	Easy	Sample case	Success	0	0.0073 sec	7.38 KB
Testcase 16	Easy	Sample case	Success	0	0.0081 sec	7.38 KB

No Comments

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