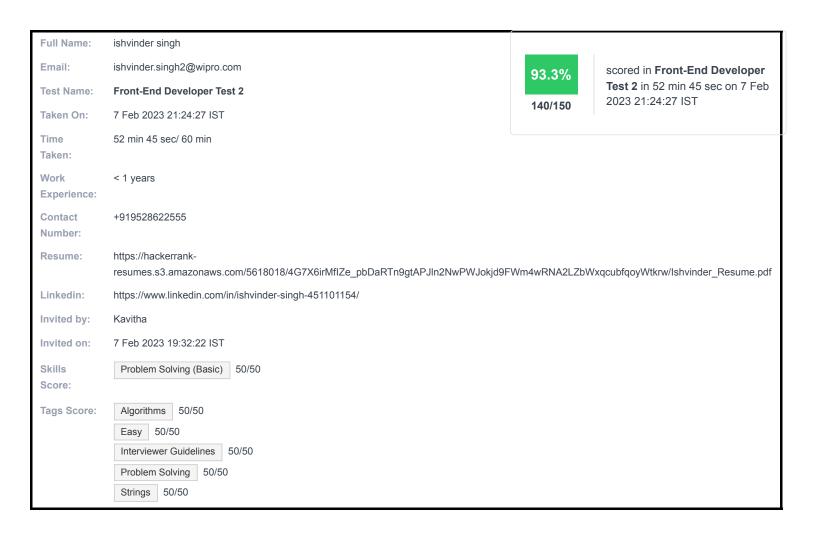
H

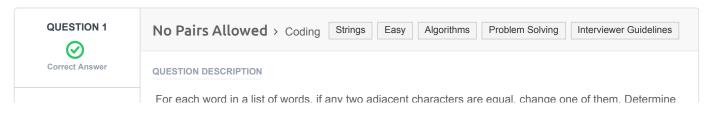
You can view this report online at: https://www.hackerrank.com/x/tests/1527029/candidates/49985767/report



Recruiter/Team Comments:

No Comments.





the minimum number of substitutions so the final string contains no adjacent equal characters.

Example

words = ['add', 'boook', 'break']

- 1. 'add': change one d (1 change)
- 2. 'boook': change the middle o (1 change)
- 3. 'break': no changes are necessary (0 changes)

The return array is [1,1,0].

Function Description

Complete the function *minimalOperations* in the editor below.

minimalOperations has the following parameter(s):
 string words[n]: an array of strings

0 13

Returns:

int[n]: each element i is the minimum substitutions for words[i]

Constraints

- 1≤n≤100
- 2 ≤ length of words[i] ≤ 10⁵
- Each character of words[i] is in the range ascii[a-z].

▼ Input Format for Custom Testing

Input from stdin will be processed as follows and passed to the function.

The first line contains an integer n, the size of the array words.

Each of the next n lines contains a string words[i].

▼ Sample Case 0

Sample Input 0

```
STDIN Function Parameters

----

5 → words[] Size = 5

ab → words[] = [ 'ab', 'aab', 'abab', 'abaaaba' ]

aab

abb

abab

abab

abaaaba
```

Sample Output 0

```
0
1
1
0
1
```

Explanation 0

- words = 'ab' is already acceptable, so 0 replacements are needed.
- words = 'aab' Replace an 'a' with an appropriate character so 1 replacement.

- words = 'abb' is not acceptable. Replace a 'b' with an appropriate character, again 1 replacement.
- words = 'abab' is already acceptable so 0 replacements are needed.
- words = 'abaaaba' is not acceptable. Replace the middle 'a' in 'aaa', 1 replacement.

The return array is [0, 1, 1, 0, 1].

INTERVIEWER GUIDELINES

▼ Hint 1

As you iterate through the string, which character(s) need to be tested for equivalence? For each character check only characters adjacent to it on the left.

▼ Hint 2

If you replace a character, can you always assume the replacement differs from the character to its right as well?

Why, and how can you use this fact?

The characters left and right can either be the same or different. There are 25 or 24 letters available in all cases.

This allows you to skip over the next character after a replacement.

▼ Solution

Concepts covered: This problem covers the concepts of strings and arrays.

Optimal Solution:

For each string, start with the character at index 1. Compare each character to the one to its left, with one exception. If the two letters are equal, assume the character to its left remains the same and the current character is replaced. It can always be replaced with a character different from both adjacent characters, left and right. The next character after a replacement can be skipped.

```
def minimalOperations(words):
   ans = []
    for w in words:
       count = 0
       i = 1
        while i < len(w):
            # test for match
            if w[i] == w[i-1]:
                # yes: increment counter and skip the next character
                count += 1
                i += 2
            else:
                # no: move to the next character
                i += 1
        ans.append(count)
    return ans
```

Sub-optimal approach: For each string, iterate its characters, checking if they are equal to the one to their left. If the characters match, replace the current character with '#'. For example: string "abbca". We check pairs one by one, 'ab', 'bb', here characters are the same, so we replace the second character with '#'. Continue checking symbols one by one, '#c', 'ca'. This finishes the process.

```
def minimalOperations(words):
    ans = []
    for i in range(len(words)):
        # replacement counter
        cur_ans = 0
        # convert the string to a list so it is mutable
```

Error Handling:

1. The case of a zero length string must be handled separately.

▼ Complexity Analysis

Time Complexity - O(N) where N is the total number of characters in all words.

Accessing all characters in all words requires O(N) time

Space Complexity - O(1) - For the optimal solution only two integer variables are required.

CANDIDATE ANSWER

Language used: JavaScript (Node.js)

```
* Complete the 'minimalOperations' function below.
   * The function is expected to return an INTEGER_ARRAY.
    * The function accepts STRING ARRAY words as parameter.
 6
   */
8 function minimalOperations(words) {
     // Write your code here
      // console.log(words)
      let c = []
      for(let i =0;i<words.length;i++) {</pre>
      let counter=0
          for (let j =0;j<words[i].length-1;j++) {</pre>
               if(words[i][j]===words[i][j+1]){
                   counter++
                   j++
               }
           }
           c.push(counter)
           counter=0
       return c
25 }
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
TestCase 0	Easy	Sample case	Success	1	0.0433 sec	38.5 KB
TestCase 1	Easy	Sample case	Success	1	0.0589 sec	38.5 KB
TestCase 2	Easy	Sample case	Success	1	0.0484 sec	38.3 KB
TestCase 3	Easy	Sample case	Success	6	0.0511 sec	38.7 KB
TestCase 4	Easv	Hidden case	Success	6	0.0528 sec	38.6 KB

TestCase 5	Easy	Sample case	Success	6	0.0552 sec	42.5 KB
TestCase 6	Easy	Hidden case	Success	6	0.063 sec	41.7 KB
TestCase 7	Easy	Hidden case	Success	5	0.0942 sec	53.9 KB
TestCase 8	Easy	Hidden case	Success	5	0.1045 sec	55.5 KB
TestCase 9	Easy	Hidden case	Success	5	0.0935 sec	53.7 KB
TestCase 10	Easy	Hidden case	Success	2	0.2697 sec	69 KB
TestCase 11	Easy	Hidden case	Success	2	0.27 sec	69.1 KB
TestCase 12	Easy	Hidden case	Success	2	0.306 sec	69.2 KB
TestCase 13	Easy	Hidden case	Success	2	0.324 sec	68.9 KB

No Comments

QUESTION 2



Score 40

Star based Rating > Front-end

QUESTION DESCRIPTION

Write an interactive star-based rating component

Specification

Write a functional component that allows a user to enter ratings on the five-star system. The component should initially display five empty stars in a row. When the user hovers over a star, that star as well as all the stars that come before it in the row should become filled (both the empty star and filled star image URLs are provided in the started code below). When the user stops hovering over the star, the component should return to its starting state. Further, if a user clicks on a star, then the component should continue to display that rating even after the user stops hovering; the component should reset only after the user hovers on a star that comes before the clicked star. If the user hovers over later stars, the component should fill those stars but should still display the clicked rating after the hover ends.

CANDIDATE ANSWER

Please open the report on HackerRank for Work to view the candidate's submission

https://www.hackerrank.com/x/tests/1527029/candidates/49985767/report

Hope you have taken few reference from google. Did you know why we used em not rem, what is meant by + ~ symbols and so on?

- Kavitha Kumarasamy (7 Feb 2023 22:34:44 IST)

QUESTION 3

Correct Answer

Score 50

Print typed text > Front-end

QUESTION DESCRIPTION

Specification

Write a functional component that accepts an extended piece of text from the user and prints the text to the screen, beginning with the first word and appending the next word every half-second until the entire text is displayed on the screen. For example, if the user submits "Hi my name is Bob", the screen should read "Hi", then "Hi my", then "Hi my name", and so on. If the user submits another piece of text reset the display and begin printing the new text. An image of the component taken as it was printing the input "Hi my name is Bob" is shown below:



CANDIDATE ANSWER

Please open the report on HackerRank for Work to view the candidate's submission

https://www.hackerrank.com/x/tests/1527029/candidates/49985767/report

No Comments

PDF generated at: 7 Feb 2023 17:14:32 UTC