Started on	Friday, 5 April 2024, 12:46 PM
State	Finished
Completed on	Friday, 12 April 2024, 12:14 PM
Time taken	6 days 23 hours
Marks	5.00/5.00
Grade	**50.00** out of 50.00 (**100**%)
Name	HARINI V 2022-CSD-A

Question **1**

Correct

Mark 1.00 out of 1.00

Given a string s consisting of some words separated by some number of spaces, return the length of the last word in the string.

A word is a maximal substring consisting of non-space characters only.

For example:

Input	Result
`Hello World`	5
`fly me   to   the moon`	4

Answer: (penalty regime: 0 %)

```
a=input()
a=a[::-1]
c=0
for b in a:
    if(b==" "):
        break
    else:
        c+=1
print(c)
```

	Input	Expected	Got	
✔	`Hello World`	5	5	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **2**

Correct

Mark 1.00 out of 1.00

Write a code to reverse the case of a character input

Input Format:

Single character Input

Output Format:

Reversed character

Example Input:

R

Output:

r

Example Input:

a

Output:

A

For example:

Input	Result
R	r
a	A

Answer: (penalty regime: 0 %)

```
a=input()
b=" "
if(a.islower()):
 b=a.upper()
 print(b)
elif(a.isupper()):
    b=a.lower()
    print(b)
```

	Input	Expected	Got	
✔	R	r	r	✔
✔	a	A	A	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **3**

Correct

Mark 1.00 out of 1.00

Find if a String2 is substring of String1. If it is, return the index of the first occurrence. else return -1.

Sample Input 1

thistest123string

123

Sample Output 1

8

Answer: (penalty regime: 0 %)

```
a=input()
b=input()
i=a.rfind(b)
print(i)
```

	Input	Expected	Got	
✔	thistest123string 123	8	8	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **4**

Correct

Mark 1.00 out of 1.00

Given a string, determine if it is a palindrome, considering only alphanumeric characters and ignoring cases.

Note: For the purpose of this problem, we define empty string as valid palindrome.

Example 1:

```
Input:
A man, a plan, a canal: Panama

Output:
1
```

Example 2:

```
Input:
race a car

Output:
0
```

Constraints:

- `s` consists only of printable ASCII characters.

Answer: (penalty regime: 0 %)

```
a=input()
a=a.lower()
a=''.join(char for char in a if char.isalpha())
b=a[::-1]
if(a==b):
    print(1)
else:
  print(0)
```

	Input	Expected	Got	
✔	A man, a plan, a canal: Panama	1	1	✔
✔	race a car	0	0	✔

Question **5**

Correct

Mark 1.00 out of 1.00

Balanced strings are those that have an equal quantity of 'L' and 'R' characters.

Given a balanced string s, split it in the maximum amount of balanced strings.

Return the maximum amount of split balanced strings.

Example 1:

Input:

RLRRLLRLRL

Output:

4

Explanation: s can be split into "RL", "RRLL", "RL", "RL", each substring contains same number of 'L' and 'R'.

Example 2:

Input:

RLLLLRRRLR

Output:

3

Explanation: s can be split into "RL", "LLLRRR", "LR", each substring contains same number of 'L' and 'R'.

Example 3:

Input:

LLLLRRRR

Output:

1

Explanation: s can be split into "LLLLRRRR".

Constraints:

1 <= s.length <= 1000

s[i] is either 'L' or 'R'.

s is a balanced string.

Answer: (penalty regime: 0 %)

```
s1 = input("")
count1 = 0
balance1 = 0
for char in s1:
   if char == 'L':
     balance1 += 1
   else:
     balance1-=1
   if balance1== 0:
     count1 += 1
print(count1)
```

	Input	Expected	Got	
✔	RLRRLLRLRL	4	4	✔
✔	RLLLLRRRLR	3	3	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

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