

Started on	Friday, 5 April 2024, 12:20 PM
State	Finished
Completed on	Friday, 5 April 2024, 1:20 PM
Time taken	1 hour
Marks	5.00/5.00
Grade	50.00 out of 50.00 (100%)
Name	<a href="#">ISHWARYA M 2022-CSD-A</a>

## Question 1

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 %)

```
1 | x = input()
2 | x = x.lower()
3 | x = ''.join(char for char in x if char.isalpha())
4 | y = x[::-1]
5 | if(y==x):
6 |     print("1")
7 | else:
8 |     print("0")
9 |
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **2**

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 %)

```
1 x = input()
2 x = x[::-1]
3 n = 0
4 for c in x:
5     if(c==" "):
6         break
7     else:
8         n += 1
9 print(n)
10
```

	Input	Expected	Got	
✓	Hello World	5	5	✓

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 %)

```
1 x = input()
2 y = input()
3 n = x.find(y)
4 print(n)
```

	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

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 %)

```
1 x = input()
2 if(x.islower()):
3     print(x.upper())
4 else:
5     print(x.lower())
```

	Input	Expected	Got	
✓	R	r	r	✓
✓	a	A	A	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

## Question 5

Correct

Mark 1.00 out of 1.00

Write a program to get 3 strings as input.

In the 1st string, replace the vowels with `*`

In the 2nd string, replace the consonants with `*`

In the third string, convert the lowercase letters to upper case.

**Input Format:**

Take 3 Strings from stdin

**Output Format:**

- In the 1st string, replace the vowels with `*`
- In the 2nd string, replace the consonants with `*`
- In the third string, convert the lowercase letters to upper case.

**Example Input:**

Hello

Hi

GoodMorning

**Output:**

H"ll"

\*i

GOODMORNING

**Answer:** (penalty regime: 0 %)

```

1 | x1 = input()
2 | x2 = input()
3 | x3 = input()
4 | k = '*'
5 | m = "*"
6 | for c in x1:
7 |     if(c in "aeiou"):
8 |         x1 = x1.replace(c,k)
9 | print(x1)
10 | for b in x2:
11 |     if(b in "aeiou"):
12 |         continue
13 |     else:
14 |         x2 = x2.replace(b,m)
15 | print(x2)
16 | print(x3.upper())

```

	Input	Expected	Got	
✓	Hello	H"ll"	H"ll"	✓
	Hi	*i	*i	
	GoodMorning	GOODMORNING	GOODMORNING	

Passed all tests! ✓

Correct