CS23336-Introduction to Python Programming

Started on Wednesday, 11 September 2024, 1:27 PM

State Finished

Completed on Wednesday, 11 September 2024, 2:17 PM

Time taken 49 mins 25 secs **Marks** 10.00/10.00

Grade 100.00 out of 100.00

Question 1

Correct Mark 1.00 out of 1.00 Flag question

Ouestion text

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 %)
Ace editor not ready. Perhaps reload page?

```
def p(s):
    filter=''.join(char.l
    ower() for char in s
    if char.isalnum())
        if
    filter==filter[::-1]:
            print("1")
        else:
            print("0")
    s=input()
    p(s)
```

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 Flag question

Question text

The program must accept **N** series of keystrokes as string values as the input. The character ^ represents undo action to clear the last entered keystroke. The program must print the string typed after applying the undo operations as the output. If there are no characters in the string then print -1 as the output.

Boundary Condition(s):

```
1 <= N <= 100
1 <= Length of each string <= 100
```

Input Format:

The first line contains the integer N. The next N lines contain a string on each line.

Output Format:

The first N lines contain the string after applying the undo operations.

Example Input/Output 1:

```
Input:
```

```
3
Hey ^ goooo^^glee^
lucke^y ^charr^ms
ora^^nge^^^^
```

Output:

```
Hey google luckycharms -1
```

Answer:(penalty regime: 0 %)
Ace editor not ready. Perhaps reload page?

```
Falling back to raw text area.
def pk(n,ks):
    results=[]
    for keystroke in
ks:
         stack=[]
         for char in
keystroke:
             if char
=='^':
                  if
stack:
stack.pop()
             else:
stack.append(char)
result=''.join(stack
```

Feedback

Input Expected Got

3
Hey ^ goooo^^glee^ Hey google Hey google
lucke^y ^charr^ms ora^nge^^^ -1 -1

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 3

Correct Mark 1.00 out of 1.00 Flag question

Question text

Write a Python program to get one string and reverses a string. The input string is given as an array of characters char[].

You may assume all the characters consist of printable ascii characters.

Example 1:

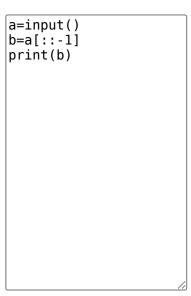
Input:
hello
Output:
olleh

Example 2:

Input:
Hannah
Output:
hannaH

Answer:(penalty regime: 0 %)

Ace editor not ready. Perhaps reload page?



Input Expected Got

hello olleh olleh

Hannah hannaH hannaH

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 4

Correct Mark 1.00 out of 1.00 Flag question

Question text

Given a **non-empty** string s and an abbreviation abbr, return whether the string matches with the given abbreviation.

A string such as "word" contains only the following valid abbreviations:

```
["word", "lord", "w1rd", "wo1d", "wor1", "2rd", "w2d", "wo2", "1o1d", "1or1", "w1r1", "1o2", "2r1", "3d", "w3", "4"]
```

Notice that only the above abbreviations are valid abbreviations of the string "word". Any other string is not a valid abbreviation of "word".

Note:
Assume s contains only lowercase letters and abbr contains only lowercase letters and digits.
Example 1:
Input
internationalization
i12iz4n
Output
true
Explanation
Given s = "internationalization", abbr = "i12iz4n":
Return true.
Example 2:
Input
apple
a2e
Output

false

Explanation

```
Given \mathbf{s} = \text{"apple"}, \mathbf{abbr} = \text{"a2e"}:
```

Return false.

Answer:(penalty regime: 0 %) Ace editor not ready. Perhaps reload page? Falling back to raw text area.

Feedback

Input Expected Got

```
internationalization true true i12iz4n true apple false false
```

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 5

Correct

```
Mark 1.00 out of 1.00 Flag question
```

Question text

Assume that the given string has enough memory.

Don't use any extra space(IN-PLACE)

Sample Input 1

a2b4c6

Sample Output 1

aabbbbcccccc

Answer:(penalty regime: 0 %)

Ace editor not ready. Perhaps reload page?

Falling back to raw text area.

```
def ds(a):
    r=[]
    i=0
    while i<len(a):</pre>
         char=a[i]
         c=''
         i+=1
        while
i<len(a) and
a[i].isdigit():
             c+=a[i]
             i+=1
         ct=int(c)
r.append(char*ct)
    return
''.join(r)
a=input()
```

Feedback

Input Expected Got
a2b4c6 aabbbbcccccc aabbbbcccccc

a12b3d4 aaaaaaaaaaabbbdddd aaaaaaaaaabbbdddd

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 6

Correct Mark 1.00 out of 1.00 Flag question

Question text

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 %) Ace editor not ready. Perhaps reload page?

Falling back to raw text area.

```
def sss(s1,s2):
    i=s1.find(s2)
    return i
s1=input()
s2=input()
r=sss(s1,s2)
print(r)
```

Feedback

Input Expected Got

```
thistest123string <sub>8</sub> 8
```

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 7

Correct Mark 1.00 out of 1.00 Flag question

Question text

A pangram is a sentence where every letter of the English alphabet appears at least once.

or false

Given a string sentence containing only lowercase English letters, return true otherwise.	if sentence is a pangram, of
Example 1:	
Input:	
thequickbrownfoxjumpsoverthelazydog	
Output:	
true	
Explanation: sentence contains at least one of every letter of the English	n alphabet.
Example 2:	
Input:	
arvijayakumar	
Output: false	
Constraints:	
1 <= sentence.length <= 1000	
sentence consists of lowercase English letters.	
For example:	
Test	Result
<pre>print(checkPangram('thequickbrownfoxjumpsoverthelazydog'))</pre>	true
<pre>print(checkPangram('arvijayakumar'))</pre>	false
Answer:(penalty regime: 0 %) Reset answer Ace editor not ready. Perhaps reload page?	

```
import string
def checkPangram(s):

a=set(string.ascii_lo
wercase)

b=set(c.lower()for c
in s if c.isalpha())
    return 'true' if
a<=b else 'false'</pre>
```

Test	Expected	Got
<pre>print(checkPangram('thequickbrownfoxjumpsoverthelazydog'))</pre>	true	true
<pre>print(checkPangram('arvijayakumar'))</pre>	false	false

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 8

Correct Mark 1.00 out of 1.00 Flag question

Question text

Given a string s containing just the characters '(', ')', '{', '}', '[' and ']', determine if the input string is valid.

An input string is valid if:

Open brackets must be closed by the same type of brackets.

Open brackets must be closed in the correct order.

Constraints:

 $1 \le s.length \le 10^4$

s consists of parentheses only '()[]{}'.

For example:

```
Test
                                    Result
print(ValidParenthesis("()"))
                                    true
print(ValidParenthesis("()[]{}")) true
print(ValidParenthesis("(]"))
                                    false
Answer:(penalty regime: 0 %)
Reset answer
Ace editor not ready. Perhaps reload page?
Falling back to raw text area.
def
ValidParenthesis(s):
    stack=[]
    mp=
     for char in s:
         if char in
mp.values():
stack.append(char)
         elif char in
mp:
             if not
stack or
stack[-1]!=mp[char]:
return 'false'
```

Test Expected Got

print(ValidParenthesis("()")) true true

print(ValidParenthesis("()[]{}")) true true

print(ValidParenthesis("(]")) false false

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 9

Correct Mark 1.00 out of 1.00 Flag question

Question text

Given a string S which is of the format USERNAME@DOMAIN.EXTENSION, the program must print the EXTENSION, DOMAIN, USERNAME in the reverse order.

Input Format:

The first line contains S.

Output Format:

The first line contains EXTENSION. The second line contains DOMAIN. The third line contains USERNAME.

Boundary Condition:

1 <= Length of S <= 100

Example Input/Output 1:

Input:

abcd@gmail.com

Output:

com gmail abcd

For example:

Input Result

edu.in arvijayakumar@rajalakshmi.edu.in rajalakshmi arvijayakumar

Answer: (penalty regime: 0 %)

Ace editor not ready. Perhaps reload page?

```
a=input()
un,domain=a.split('@'
)
dp=domain.split('.')
if len(dp)>=2:
    dn=dp[0]

de='.'.join(dp[1:])
print(de)
print(dn)
print(un)
```

Input	Expected	Got
abcd@gmail.com	com gmail abcd	com gmail abcd
arvijayakumar@rajalakshmi.edu.in	edu.in rajalakshmi arvijayakumar	edu.in rajalakshmi arvijayakumar

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question 10

Correct Mark 1.00 out of 1.00 Flag question

Question text

Consider the below words as key words and check the given input is key word or not.

keywords: {break, case, continue, default, defer, else, for, func, goto, if, map, range, return, struct, type, var}

Input format:

Take string as an input from stdin.

Output format:

Print the word is key word or not.

Example Input:

Output:

break is a keyword

Example Input:

IF

Output:

IF is not a keyword

For example:

Input Result

break break is a keyword

IF IF is not a keyword

Answer:(penalty regime: 0 %)

Ace editor not ready. Perhaps reload page?

Falling back to raw text area.

a=input()
x=
['break','case','cont
inue','default','defe
r','else','for','func
','goto','if','map','
range','return','stru
ct','type','var']
if a in x:
 print(f"{a} is a
keyword")
else:
 print(f"{a} is
not a keyword")

Feedback

break

Input Expected Got

break break is a keyword break is a keyword

IF IF is not a keyword IF is not a keyword

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Finish review