CS23336-Introduction to Python Programming

Started on Friday, 18 October 2024, 12:34 PM Finished State Completed on Friday, 18 October 2024, 1:11 PM Time taken 36 mins 4 secs 10.00/10.00 Marks Grade **100.00** out of 100.00 **Question 1** Correct Mark 1.00 out of 1.00 Flag question **Ouestion text** A pangram is a sentence where every letter of the English alphabet appears at least once. Given a string sentence containing only lowercase English letters, return true if sentence is a pangram, or false otherwise Example 1: Input: thequickbrownfoxjumpsoverthelazydog Output: true Explanation: sentence contains at least one of every letter of the English alphabet. Example 2: Input: arvijayakumar Output: false Constraints:

 $1 \le \text{sentence.length} \le 1000$

sentence consists of lowercase English letters.

For example:

Test Result

print(checkPangram('thequickbrownfoxjumpsoverthelazydog')) true

Answer:(penalty regime: 0 %)

Reset answer

```
1  import string
2  def checkPangram(s):
3   a=set(string.ascii_lowercase)
4  b=set(c.lower()for c in s if c.isalpha())
5  return 'true' if a<=b else 'false'</pre>
```

Feedback

Test Expected Got

print(checkPangram('thequickbrownfoxjumpsoverthelazydog')) true true

print(checkPangram('arvijayakumar')) false false

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

Answer:(penalty regime: 0 %)

```
1 def pk(n,b):
2 for j in b:
3 result=[]
4 for char in j:
```

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

Expected

Got

Passed all tests!

Input

Correct

Marks for this submission: 1.00/1.00.

Question 3

Correct Mark 1.00 out of 1.00 Flag question

Question 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 %)

Feedback

Input Expected Got

A man, a plan, a canal: Panama 1 1

race a car 0 0

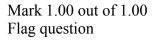
Passed all tests!

Correct

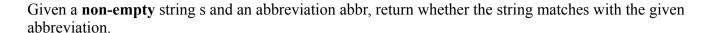
Marks for this submission: 1.00/1.00.

Question 4

Correct



Question text



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

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 s = "apple", abbr = "a2e":

Return false.

Answer:(penalty regime: 0 %)

```
1  def vwa(s,ab):
        i,j=0,0
3 -
        while i<len(s) and j<len(ab):
             if ab[j].isdigit():
                 if ab[j]=="0":
                 num = 0
8
                 while j<len(ab) and ab[j].isdigit():</pre>
                     num=num*10+int(ab[j])
                     j+=1
                 i +=num
13 -
                 if i >=len(s) or ab[j]!=s[i]:
14
        return i==len(s) and j==len(ab)
```

Input Expected Got

internationalization true true i12iz4n

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 %)

```
1  def ds(a):
2    result=[]
3    i=0
```

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

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:
break
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 %)

Feedback

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.

Question 7

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:

 $1 \le \text{Length of S} \le 100$

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 %)

```
1  a=input()
2  b=a.find('0')
3  c=a.find('.')
4  print(a[c+1:len(a)])
5  print(a[b+1:c])
6  print(a[0:b])
```

Feedback

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

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

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

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 %)

```
1 a=input()
print(a[::-1])
```

Feedback

Input Expected Got

hello olleh olleh

Hannah hannaH hannaH

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

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 a=input()
2 b=input()
3 print(a.find(b))
```

Feedback

Input Expected Got

thistest123string ₈ 8

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

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
<pre>print(ValidParenthesis("()"))</pre>	true
<pre>print(ValidParenthesis("()[]{}"))</pre>	true
<pre>print(ValidParenthesis("(]"))</pre>	false

Answer:(penalty regime: 0 %)

Reset answer

```
1 def ValidParenthesis(s):
2 stack=[]
3 mp={')':'(','}':'{',']':'['}
4 for char in s:
5 | if char in mp.values():
6 | stack.append(char)
7 | elif char in mp:
8 | if not stack or stack[-1]!=mp[char]:
9 | | return 'false'
10 | stack.pop()
11 return 'true' if not stack else 'false'
```

Test	Expected	Got
<pre>print(ValidParenthesis("()"))</pre>	true	true
<pre>print(ValidParenthesis("()[]{}"))</pre>	true	true
<pre>print(ValidParenthesis("(]"))</pre>	false	false

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Finish review