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Python Basics Hands-on Series-4 SGP > **joy.ashwin@tcs.com**

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Test Name:	**Python Basics Hands-on Series-4 SGP**
Taken On:	3 Mar 2024 15:51:29 IST
Time Taken:	15 min 37 sec/ 75 min
Invited by:	Ashwin Joy
Skills Score:	
Tags Score:	

100%

125/125

scored in **Python Basics Hands-on Series-4 SGP** in 15 min 37 sec on 3 Mar 2024 15:51:29 IST

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	**Programming Q1.6** > **Coding**	2 min 28 sec	25/ 25	✓
Q2	**Programming Q1.7** > **Coding**	2 min 22 sec	25/ 25	✓
Q3	**Programming Q1.8** > **Coding**	2 min 18 sec	25/ 25	✓
Q4	**Programming Q1.9** > **Coding**	6 min 26 sec	25/ 25	✓
Q5	**Programming Q1.10** > **Coding**	1 min 57 sec	25/ 25	✓

QUESTION 1

✓

Correct Answer

Score 25

Programming Q1.6 > Coding

QUESTION DESCRIPTION

Write a program to find the factorial of a number using recursion.

Sample TestCase

Input

```
6
```

Output

```
720
```

Language used: **Python 3**

```python
1  # Enter your code here. Read input from STDIN. Print output to STDOUT
2
3  def fact(n):
4      if n==1:
5          return n
6      return n * fact(n-1)
7
8  num = int(input())
9  result = fact(num)
10 print(result)
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 0	Easy	Sample case	✓ Success	5	0.0128 sec	9.04 KB
Testcase 1	Easy	Hidden case	✓ Success	5	0.0147 sec	9.25 KB
Testcase 2	Easy	Hidden case	✓ Success	5	0.0153 sec	9.26 KB
Testcase 3	Easy	Hidden case	✓ Success	5	0.0144 sec	9.25 KB
Testcase 4	Easy	Hidden case	✓ Success	5	0.0421 sec	9.25 KB

No Comments

QUESTION 2

✓

Correct Answer

Score 25

Programming Q1.7 > Coding

QUESTION DESCRIPTION

Remove duplicates from a given sorted array of numbers.

The first line of input is the number of values in the array. In the second line, read the n values as input for the array.

Print the resultant array as output. Kindly check the sample test case for reference.

Sample TestCase

Input

```
9
1 1 1 2 3 4 4 5 6
```

Output

```
1 2 3 4 5 6
```

CANDIDATE ANSWER

Language used: **Python 3**

```
1  # Enter your code here. Read input from STDIN. Print output to STDOUT
```

```
2  n = int(input())
3  my_list = list(map(int, input().split()))
4
5  unique_values = set(my_list)
6
7  for i in unique_values:
8      print(i, end=" ")
9
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 0	Easy	Sample case	⊘ Success	5	0.0139 sec	9.29 KB
Testcase 0	Easy	Sample case	⊘ Success	5	0.0158 sec	9.21 KB
Testcase 1	Easy	Hidden case	⊘ Success	5	0.014 sec	9.14 KB
Testcase 3	Easy	Hidden case	⊘ Success	5	0.0964 sec	9.25 KB
Testcase 4	Easy	Hidden case	⊘ Success	5	0.0139 sec	9.24 KB

No Comments

QUESTION 3

⊘

Correct Answer

Score 25

Programming Q1.8 > Coding

QUESTION DESCRIPTION

Challenge: Checking for Palindrome

You overhear a group of students talking about palindromes and you become curious. You decide to write a program that checks if a given word or phrase is a palindrome (reads the same backward as forward, ignoring spaces, capitalization, and punctuation).

Write a program that:
- Takes a single-word string input from the user.
- Checks if the given string is a palindrome.
- Prints out whether the input string is a palindrome or not.

If the string is a palindrome, print "The string is a palindrome.". Else, print "The string is not a palindrome.".

Please check the sample test case for more clarity.

Sample TestCase

Input

```
radar
```

Output

```
The string is a palindrome.
```

CANDIDATE ANSWER

Language used: **Python 3**

```
1  # Enter your code here. Read input from STDIN. Print output to STDOUT
2
3  my_string = input().lower()
4  reverse = my_string[::-1]
5
6  # print(my_string)
7
8  if(my_string==reverse):
9      print("The string is a palindrome.")
10 else:
11     print("The string is not a palindrome.")
12
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 0	Easy	Sample case	⊘ Success	5	0.0142 sec	9.01 KB
Testcase 1	Easy	Hidden case	⊘ Success	5	0.0719 sec	9.06 KB
Testcase 2	Easy	Hidden case	⊘ Success	5	0.0127 sec	9.11 KB
Testcase 3	Easy	Hidden case	⊘ Success	5	0.0155 sec	9.13 KB
Testcase 4	Easy	Hidden case	⊘ Success	5	0.0913 sec	9.05 KB

No Comments

QUESTION 4

⊘

Correct Answer

Score 25

Programming Q1.9 > Coding

QUESTION DESCRIPTION

Given an input of string in combinations of characters '{' and '}', which are parathesis, you have to find if the input is balanced or not. The input is balanced if all the opening curly braces are closed. You can't close a curly brace before it is opened.

If the input is balanced print "Matching" on the console, else print "Not Matching".

Example 1:
Input:
{}

Output:
Matching

Example 2:
Input:
{}{}

Output:
Matching

Example 3:
Input:
{}{

Output:
Not Matching

Language used: **Python 3**

```python
1  # Enter your code here. Read input from STDIN. Print output to STDOUT
2
3  pattern = input()
4
5  count = 0
6
7  for i in pattern:
8      if i == '{':
9          count += 1
10     elif i == '}':
11         count -= 1
12     if count < 0:
13         break
14
15 if count==0:
16     print("Matching")
17 else:
18     print("Not Matching")
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 0	Easy	Sample case	✓ Success	3	0.0132 sec	8.95 KB
Testcase 1	Easy	Sample case	✓ Success	3	0.048 sec	9.04 KB
Testcase 2	Easy	Sample case	✓ Success	3	0.0137 sec	8.86 KB
Testcase 3	Easy	Hidden case	✓ Success	4	0.0159 sec	8.98 KB
Testcase 4	Easy	Hidden case	✓ Success	4	0.0219 sec	9.13 KB
Testcase 5	Easy	Hidden case	✓ Success	4	0.0141 sec	8.95 KB
Testcase 6	Easy	Hidden case	✓ Success	4	0.0149 sec	8.96 KB

No Comments

QUESTION 5

✓

Correct Answer

Score 25

Programming Q1.10 > Coding

QUESTION DESCRIPTION

Challenge: Swap a Letter with Asterisk

Imagine you're developing a word puzzle game where a particular letter in a word is hidden, and players have to guess that letter. Write a program that takes a word and a letter as input and replaces all occurrences of that letter in the word with asterisks (`*`).

Write a program that:
- Accepts a word and a letter from the user.
- Replaces all occurrences of the given letter in the word with `*`.
- Prints out the original word and the modified word.

Sample Input:

Hello

l

Sample Output:

He**o

CANDIDATE ANSWER

Language used: **Python 3**

```
1  # Enter your code here. Read input from STDIN. Print output to STDOUT
2
3  my_string = input()
4  char = input()
5
6  my_string = my_string.replace(char, '*')
7
8  print(my_string)
9
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 0	Easy	Sample case	✓ Success	5	0.0157 sec	9.09 KB
Testcase 1	Easy	Sample case	✓ Success	5	0.0155 sec	9.14 KB
Testcase 2	Easy	Hidden case	✓ Success	5	0.067 sec	9.32 KB
Testcase 3	Easy	Hidden case	✓ Success	5	0.0146 sec	9.19 KB
Testcase 4	Easy	Hidden case	✓ Success	5	0.0139 sec	9.23 KB

No Comments