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Test Name:	**Python Basics Hands-on Series-3 SGP**
Taken On:	3 Mar 2024 11:39:49 IST
Time Taken:	86 min 28 sec/ 90 min
Invited by:	Ashwin Joy
Skills Score:	
Tags Score:	

100%
125/125

scored in **Python Basics Hands-on Series-3 SGP** in 86 min 28 sec on 3 Mar 2024 11:39:49 IST

Recruiter/Team Comments:

No Comments.

Plagiarism flagged

We have marked questions with suspected plagiarism below. Please review it in detail here - https://www.hackerrank.com/x/tests/1790092/candidates/61184255/report

	Question Description	Time Taken	Score	Status
Q1	Programming Q1.1 > Coding	1 min 53 sec	25/ 25	✓
Q2	Programming Q1.2 > Coding	1 min 31 sec	25/ 25	!
Q3	Programming Q1.3 > Coding	1 min 53 sec	25/ 25	✓
Q4	Programming Q1.4 > Coding	12 min 46 sec	25/ 25	!
Q5	Programming Q1.5 > Coding	32 min 2 sec	25/ 25	!

QUESTION 1

Correct Answer

Score 25

Programming Q1.1 > Coding

QUESTION DESCRIPTION

Write a program to find the product of a set of real numbers.

Read the number of values n from the console in the first line. For the next "n" lines, read the real numbers one by one. Print the product of the n numbers on the console as output.

The output value should be rounded off to two decimal places.

Sample TestCase

Input

```
4
3.2
6.6
4.3
5.1
```

Output

```
The product of the numbers is: 463.16
```

CANDIDATE ANSWER

Language used: **Python 3**

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

n = int(input())
product = 1

for i in range(n):
    value = float(input())
    product = product * value

print("The product of the numbers is: {:.2f}".format(product))

```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 0	Easy	Sample case	Success	5	0.0155 sec	9.35 KB
Testcase 1	Easy	Hidden case	Success	5	0.059 sec	9.5 KB
Testcase 2	Easy	Hidden case	Success	5	0.1065 sec	9.43 KB
Testcase 3	Easy	Hidden case	Success	5	0.1372 sec	9.54 KB
Testcase 4	Easy	Hidden case	Success	5	0.0148 sec	9.54 KB

No Comments

QUESTION 2

Needs Review

Score 25

Programming Q1.2 › Coding

QUESTION DESCRIPTION

Write a program to find the average of n numbers using a while loop. Read an integer, n from the console, which will be the number of values. Write a while loop to read n numbers from the console and find the average of all these numbers. Print the average value as the output with a precision of 3 decimal places.

Sample TestCase

Input

```
3
4.5
5.5
6
```

Output

```
The average is: 5.333
```

CANDIDATE ANSWER

Language used: **Python 3**

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


n = int(input())
sum = 0

for i in range(n):
    value = float(input())
    sum += value

avg = sum/n

print("The average is: {:.3f}".format(avg))
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 0	Easy	Sample case	Success	5	0.0143 sec	9.55 KB
Testcase 1	Easy	Hidden case	Success	5	0.0209 sec	9.51 KB
Testcase 2	Easy	Hidden case	Success	5	0.014 sec	9.29 KB
Testcase 3	Easy	Hidden case	Success	5	0.0176 sec	9.54 KB
Testcase 4	Easy	Hidden case	Success	5	0.0228 sec	9.57 KB

No Comments

QUESTION 3

Correct Answer

Score 25

Programming Q1.3 › Coding

QUESTION DESCRIPTION

Write a program to display all the multiples of 3 within the range n and m. Read the value of n and m from the first two lines of the console as input. Print all the multiples of 3 within the range of n and m as output.

Kindly check the sample test case for more clarity.

Sample TestCase

Input

```
10
```

```
50
```

Output

```
12 15 18 21 24 27 30 33 36 39 42 45 48
```

CANDIDATE ANSWER

Language used: **Python 3**

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

start = int(input())
end = int(input())

for i in range(start+1,end):
    if(i%3==0):
        print(i, end=" ")

```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 0	Easy	Sample case	Success	5	0.015 sec	9.16 KB
Testcase 1	Easy	Hidden case	Success	5	0.0779 sec	9.2 KB
Testcase 2	Easy	Hidden case	Success	5	0.0149 sec	9.26 KB
Testcase 3	Easy	Hidden case	Success	5	0.0661 sec	9.23 KB
Testcase 4	Easy	Hidden case	Success	5	0.0151 sec	9.25 KB

No Comments

QUESTION 4

Needs Review

Score 25

Programming Q1.4 › Coding

QUESTION DESCRIPTION

Write a program to check whether the given integer is a prime number or not. Read an integer from the console as input. If the integer is a prime number, print "n is a prime number", where n is the value of the integer. Else, print "n is not a prime number".

Kindly check the sample test case for more clarity.

Sample TestCase

Input

```
7
```

Output

```
7 is a prime number
```

CANDIDATE ANSWER

Language used: **Python 3**

```python
# Enter your code here. Read input from STDIN. Print output to STDOUT
import math

number = int(input())
is_prime = True

for i in range(2,int(math.sqrt(number))+1):
    if(number%i==0):
        is_prime = False


if is_prime==True:
    print(number,"is a prime number")
else:
    print(number,"is not a prime number")
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 0	Easy	Sample case	Success	5	0.0159 sec	9.5 KB
Testcase 1	Easy	Hidden case	Success	5	0.0146 sec	9.63 KB
Testcase 2	Easy	Hidden case	Success	5	0.0145 sec	9.55 KB
Testcase 3	Easy	Hidden case	Success	5	0.0152 sec	9.49 KB
Testcase 4	Easy	Hidden case	Success	5	0.0154 sec	9.65 KB

No Comments

QUESTION 5

Needs Review

Score 25

Programming Q1.5 › Coding

QUESTION DESCRIPTION

Imagine you are helping a student with their mathematics homework which involves a lot of problems based on matrix addition. You decide to write a program to automate the task of adding two matrices, which would make the homework a breeze!

Write a program to add two matrices. The program should:
- Prompt the user to enter the dimensions of the matrices (assume both matrices have the same dimensions).
- Accept the elements of the two matrices from the user.
- Display the two matrices.
- Add the two matrices.
- Print the resultant matrix.

Kindly check the sample test case for input and output format.

Sample TestCase:

Input

```
2 2
1 2
3 4
5 6
7 8
```

Output

```
First Matrix:
1 2
3 4
Second Matrix:
5 6
7 8
Sum of the two matrices is:
6 8
10 12
```

CANDIDATE ANSWER

Language used: **Python 3**

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

r, c = input().split()
r = int(r)
c = int(c)

matrix_A = []

for i in range(r):
    row = list(map(int, input().split()))
    matrix_A.append(row)

print("First Matrix:")
for row in matrix_A:
    for value in row:
        print(value, end=" ")
    print("")

matrix_B = []


for i in range(r):
    row = list(map(int, input().split()))
    matrix_B.append(row)

print("Second Matrix:")
# print(matrix_B)
for row in matrix_B:
    for value in row:
        print(value, end=" ")
    print("")


print("Sum of the two matrices is:")
result = []
for i in range(r):
    row = []
```

```
    for j in range(c):
        row.append(matrix_A[i][j] + matrix_B[i][j])
    result.append(row)

# print(result)
for row in result:
    for value in row:
        print(value, end=" ")
    print("")

```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 0	Easy	Hidden case	Success	5	0.0128 sec	9.35 KB
Testcase 1	Easy	Sample case	Success	5	0.014 sec	9.46 KB
Testcase 2	Easy	Hidden case	Success	5	0.1027 sec	9.11 KB
Testcase 3	Easy	Hidden case	Success	5	0.0128 sec	9.16 KB
Testcase 4	Easy	Hidden case	Success	5	0.0194 sec	9.48 KB

No Comments

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