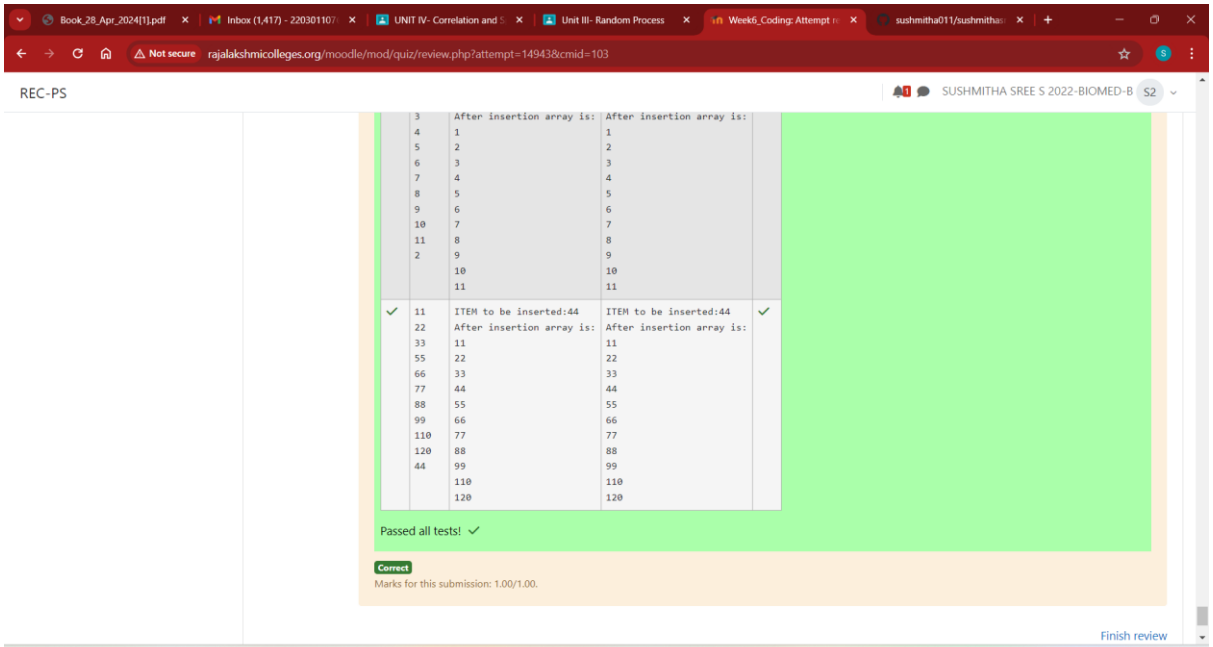
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UNIT IV- Correlation and S
Unit III- Random Process
Week6_Coding: Attempt re
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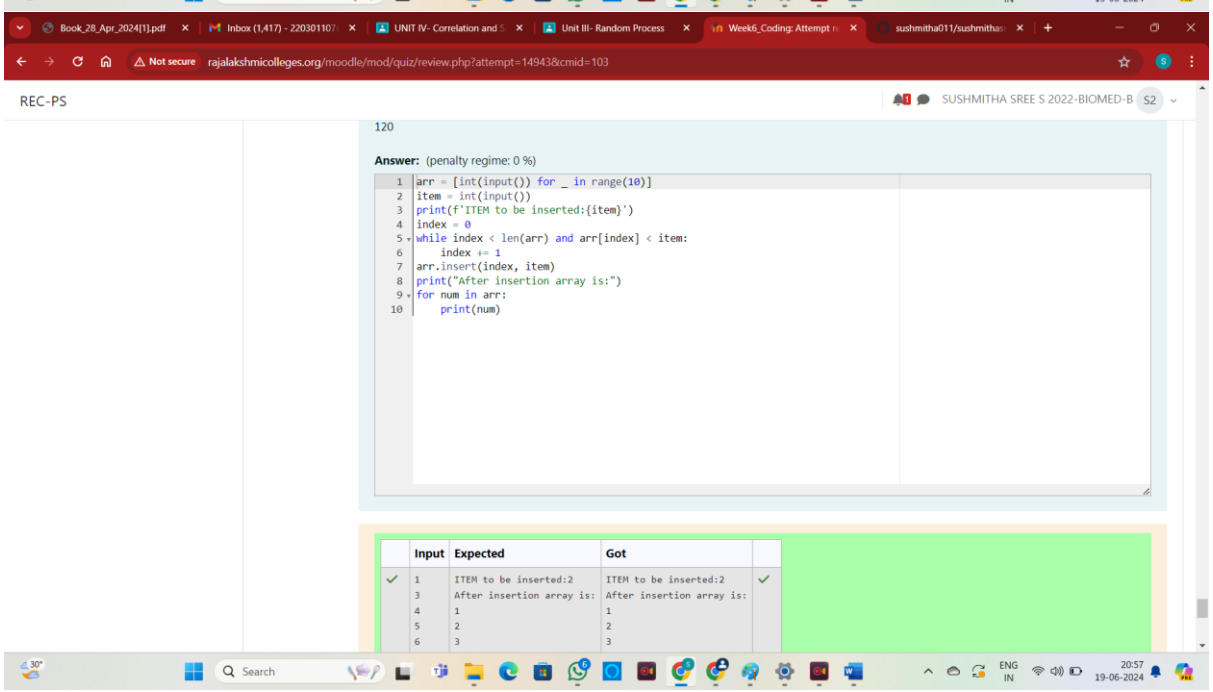
Not secure
rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=14943&cmid=103
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
S2
3 After insertion array is:
4 1
5 2
6 3
7 4
8 5
9 6
10 7
11 8
2 9
10
11
After insertion array is:
1
2
3
4
5
6
7
8
9
10
11
11 ITEM to be inserted:44
22 After insertion array is:
33 11
55 22
66 33
77 44
88 55
99 66
110 77
120 88
44 99
110
120
ITEM to be inserted:44
After insertion array is:
11
22
33
44
55
66
77
88
99
110
120
Passed all tests!
Correct
Marks for this submission: 1.00/1.00.
Finish review
Search
ENG
IN
20:57
19-06-2024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Week6_Coding: Attempt re
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Not secure
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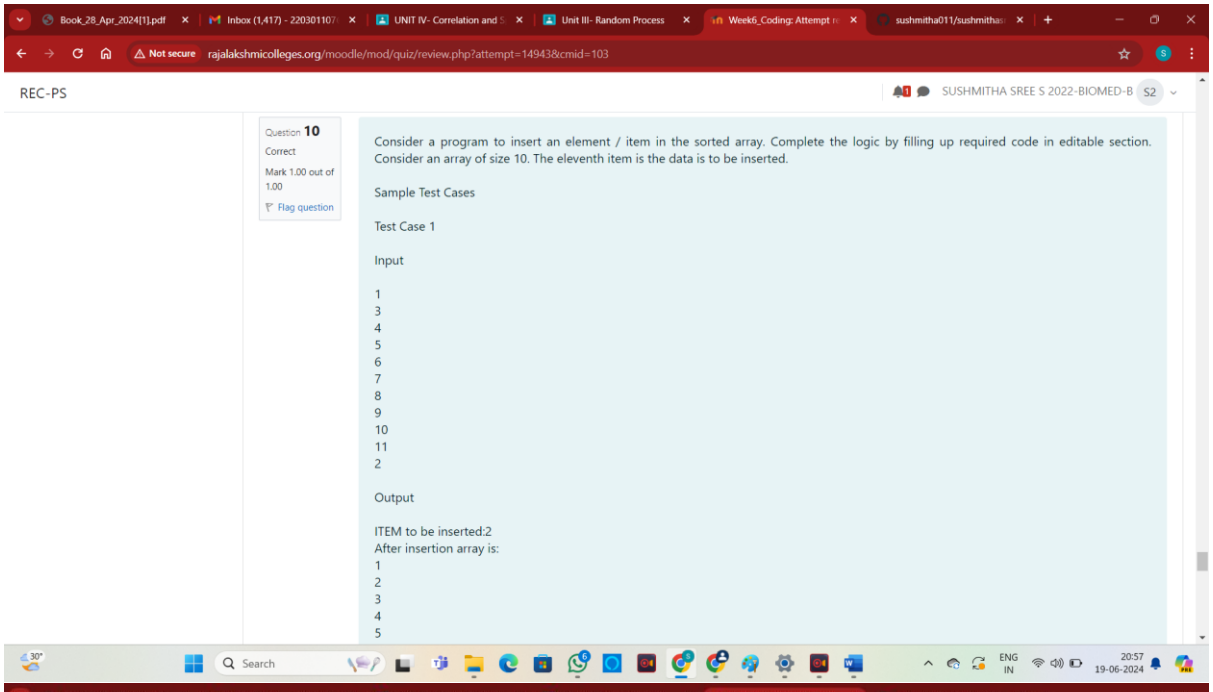
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
S2
120
Answer: (penalty regime: 0 %)
arr = [int(input()) for _ in range(10)]
item = int(input())
print(f'ITEM to be inserted:{item}')
index = 0
while index < len(arr) and arr[index] < item:
index += 1
arr.insert(index, item)
print("After insertion array is:")
for num in arr:
print(num)
Input
Expected
Got
1 ITEM to be inserted:2
3 After insertion array is:
4 1
5 2
6 3
ITEM to be inserted:2
After insertion array is:
1
2
3
Search
ENG
IN
20:57
19-06-2024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Unit III- Random Process
Week6_Coding: Attempt re
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Not secure
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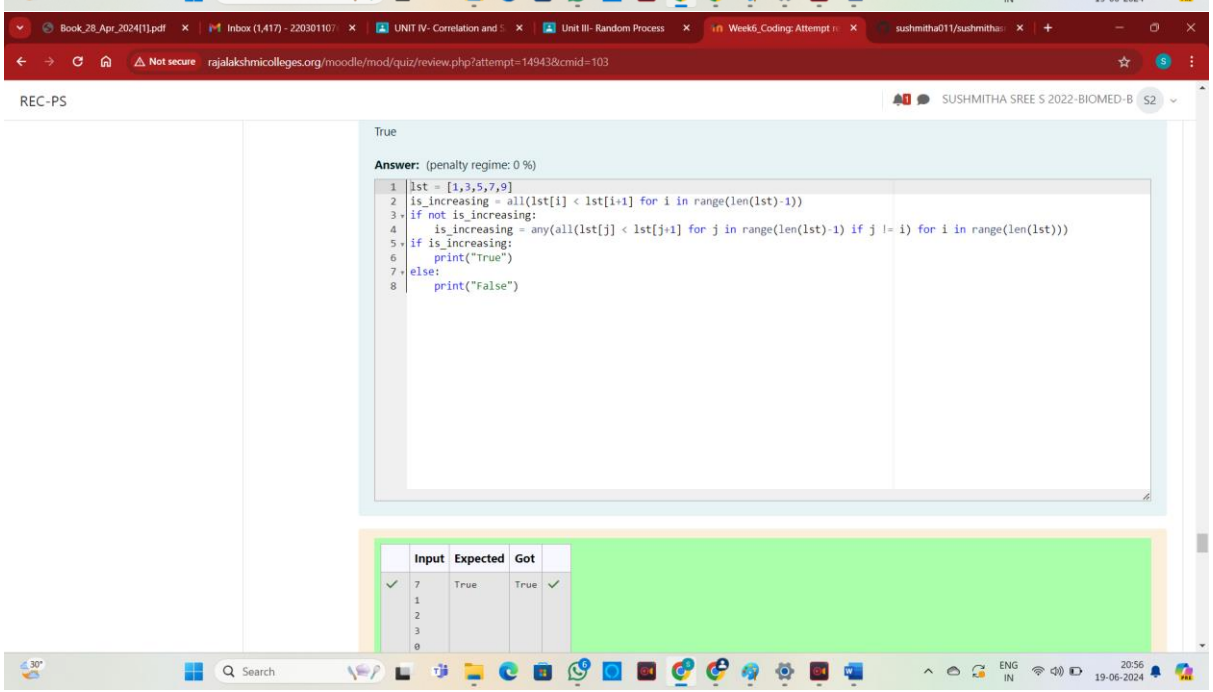
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
Question 10
Correct
Mark 1.00 out of 1.00
Flag question
Consider a program to insert an element / item in the sorted array. Complete the logic by filling up required code in editable section. Consider an array of size 10. The eleventh item is the data is to be inserted.
Sample Test Cases
Test Case 1
Input
1
3
4
5
6
7
8
9
10
11
2
Output
ITEM to be inserted:2
After insertion array is:
1
2
3
4
5
Search
ENG
IN
20:57
19-06-2024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Unit III- Random Process
Week6_Coding: Attempt re
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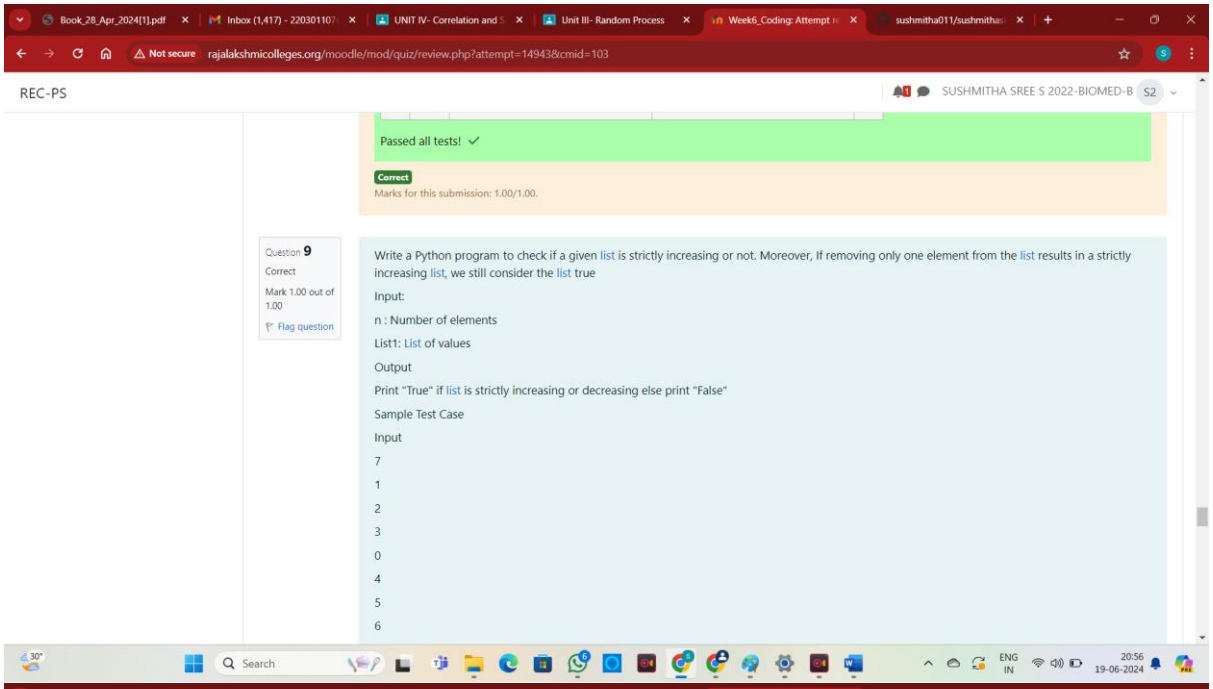
Not secure
rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=14943&cmid=103
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
True
Answer: (penalty regime: 0 %)
lst = [1,3,5,7,9]
is_increasing = all(lst[i] < lst[i+1] for i in range(len(lst)-1))
if not is_increasing:
is_increasing = any(all(lst[j] < lst[j+1] for j in range(len(lst)-1) if j != i) for i in range(len(lst)))
if is_increasing:
print("True")
else:
print("False")
Input
Expected
Got
7
1
2
3
0
True
True
Search
ENG
IN
20:56
19-06-2024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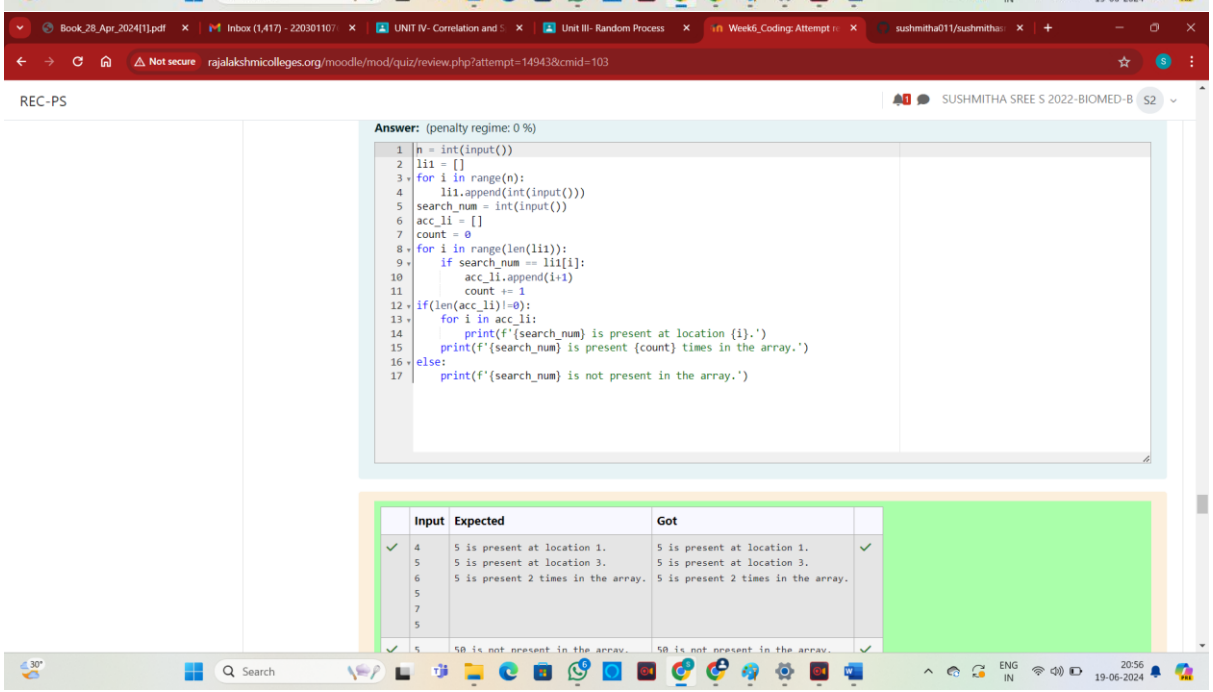
Unit III- Random Process
Week6_Coding: Attempt re
sushmitha011/sushmitha
Not secure
rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=14943&cmid=103
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
S2
Passed all tests!
Correct
Marks for this submission: 1.00/1.00.
Question 9
Correct
Mark 1.00 out of 1.00
Flag question
Write a Python program to check if a given list is strictly increasing or not. Moreover, If removing only one element from the list results in a strictly increasing list, we still consider the list true
Input:
n : Number of elements
List1: List of values
Output
Print "True" if list is strictly increasing or decreasing else print "False"
Sample Test Case
Input
7
1
2
3
0
4
5
6
Search
ENG
IN
20:56
19-06-2024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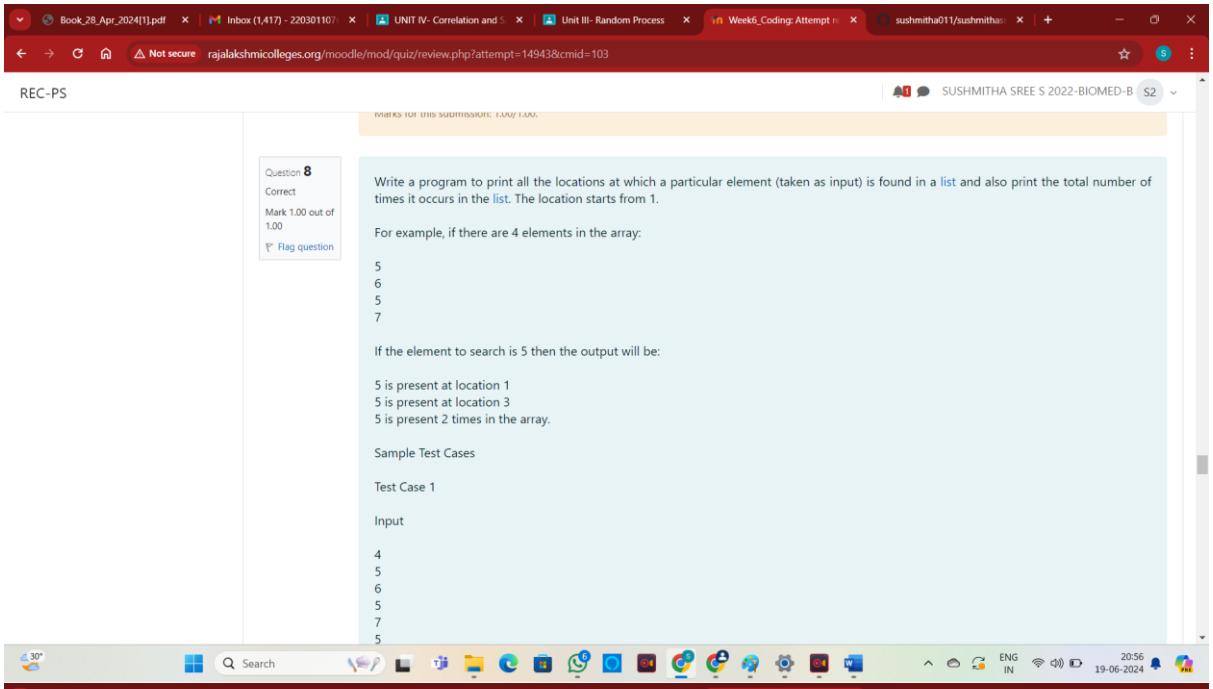
Unit III- Random Process
Week6_Coding: Attempt re
sushmitha011/sushmitha
Not secure
rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=14943&cmid=103
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
S2
Answer: (penalty regime: 0 %)
n = int(input())
li1 = []
for i in range(n):
li1.append(int(input()))
search_num = int(input())
acc_li = []
count = 0
for i in range(len(li1)):
if search_num == li1[i]:
acc_li.append(i+1)
count += 1
if(len(acc_li)!=0):
for i in acc_li:
print(f'{search_num} is present at location {i}.')
print(f'{search_num} is present {count} times in the array.')
else:
print(f'{search_num} is not present in the array.')
Input
Expected
Got
4
5
6
5
7
5
5 is present at location 1.
5 is present at location 3.
5 is present 2 times in the array.
5 is present at location 1.
5 is present at location 3.
5 is present 2 times in the array.
Search
ENG
IN
20:56
19-06-2024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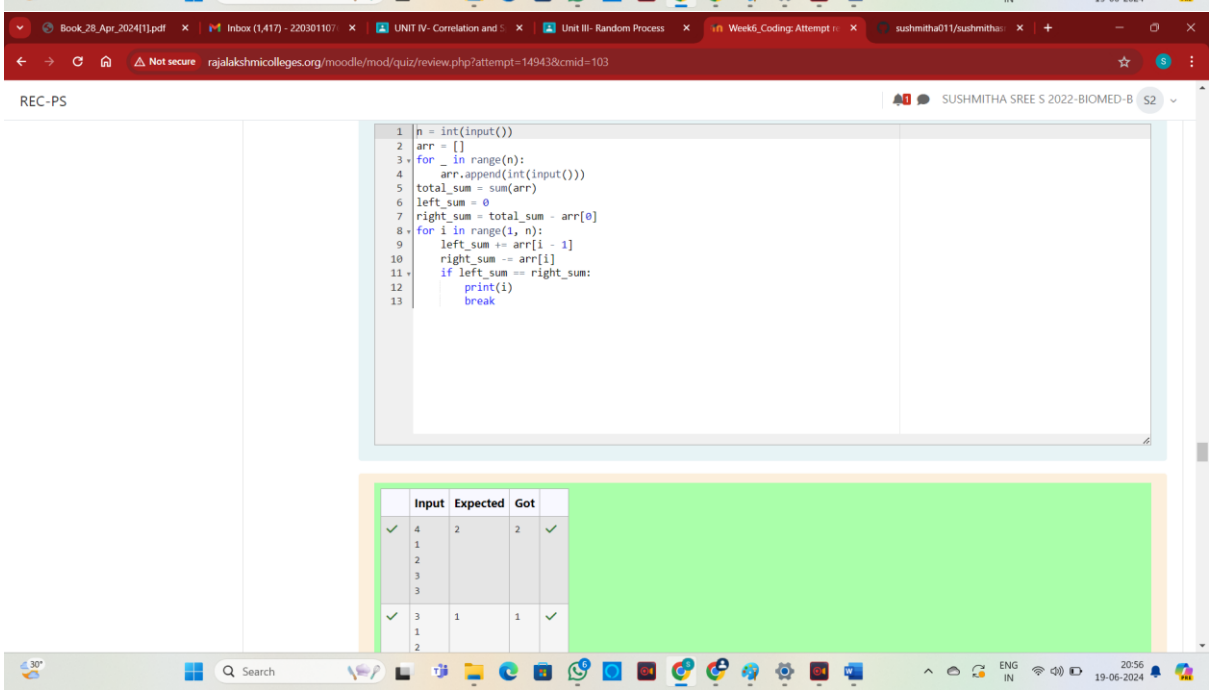
Unit III- Random Process
Week6_Coding: Attempt re
sushmitha011/sushmitha
Not secure
rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=14943&cmid=103
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
Question 8
Correct
Mark 1.00 out of 1.00
Flag question
Write a program to print all the locations at which a particular element (taken as input) is found in a list and also print the total number of times it occurs in the list. The location starts from 1.
For example, if there are 4 elements in the array:
5
6
5
7
If the element to search is 5 then the output will be:
5 is present at location 1
5 is present at location 3
5 is present 2 times in the array.
Sample Test Cases
Test Case 1
Input
4
5
6
5
7
5
Search
ENG
IN
20:56
19-06-2024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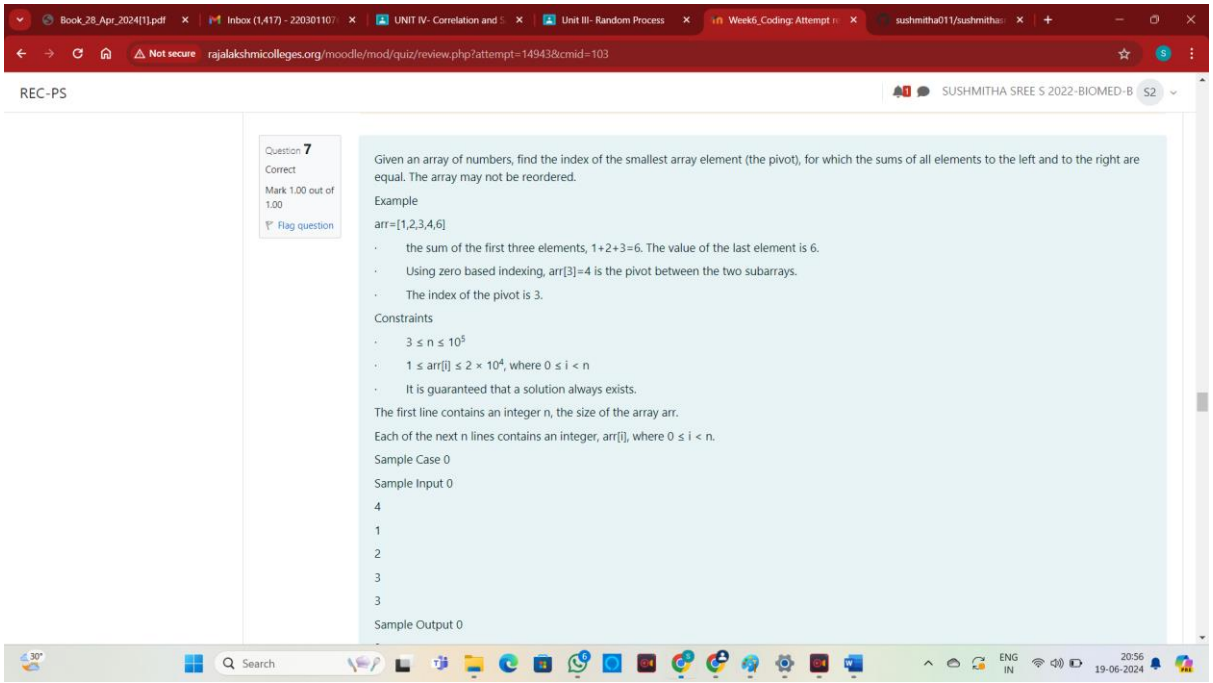
Week6_Coding: Attempt re
sushmitha011/sushmitha
Not secure
rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=14943&cmid=103
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
n = int(input())
arr = []
for _ in range(n):
arr.append(int(input()))
total_sum = sum(arr)
left_sum = 0
right_sum = total_sum - arr[0]
for i in range(1, n):
left_sum += arr[i - 1]
right_sum -= arr[i]
if left_sum == right_sum:
print(i)
break
Input
Expected
Got
4
1
2
3
3
2
2
3
1
2
1
1
Search
ENG
IN
20:56
19-06-2024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Unit III- Random Process
Week6_Coding: Attempt re
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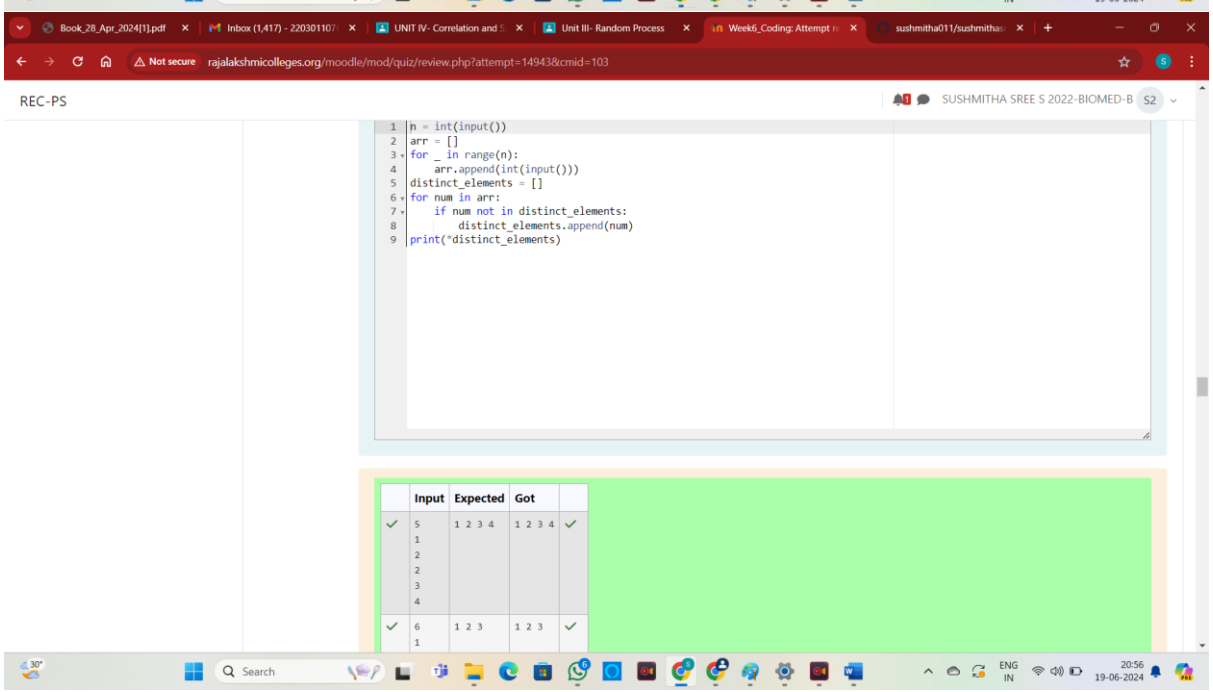
Not secure
rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=14943&cmid=103
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
Question 7
Correct
Mark 1.00 out of 1.00
Flag question
Given an array of numbers, find the index of the smallest array element (the pivot), for which the sums of all elements to the left and to the right are equal. The array may not be reordered.
Example
arr=[1,2,3,4,6]
the sum of the first three elements, 1+2+3=6. The value of the last element is 6.
Using zero based indexing, arr[3]=4 is the pivot between the two subarrays.
The index of the pivot is 3.
Constraints
3 ≤ n ≤ 10^5
1 ≤ arr[i] ≤ 2 × 10^4, where 0 ≤ i < n
It is guaranteed that a solution always exists.
The first line contains an integer n, the size of the array arr.
Each of the next n lines contains an integer, arr[i], where 0 ≤ i < n.
Sample Case 0
Sample Input 0
4
1
2
3
3
Sample Output 0
Search
ENG
IN
20:56
19-06-2024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Week6_Coding: Attempt re
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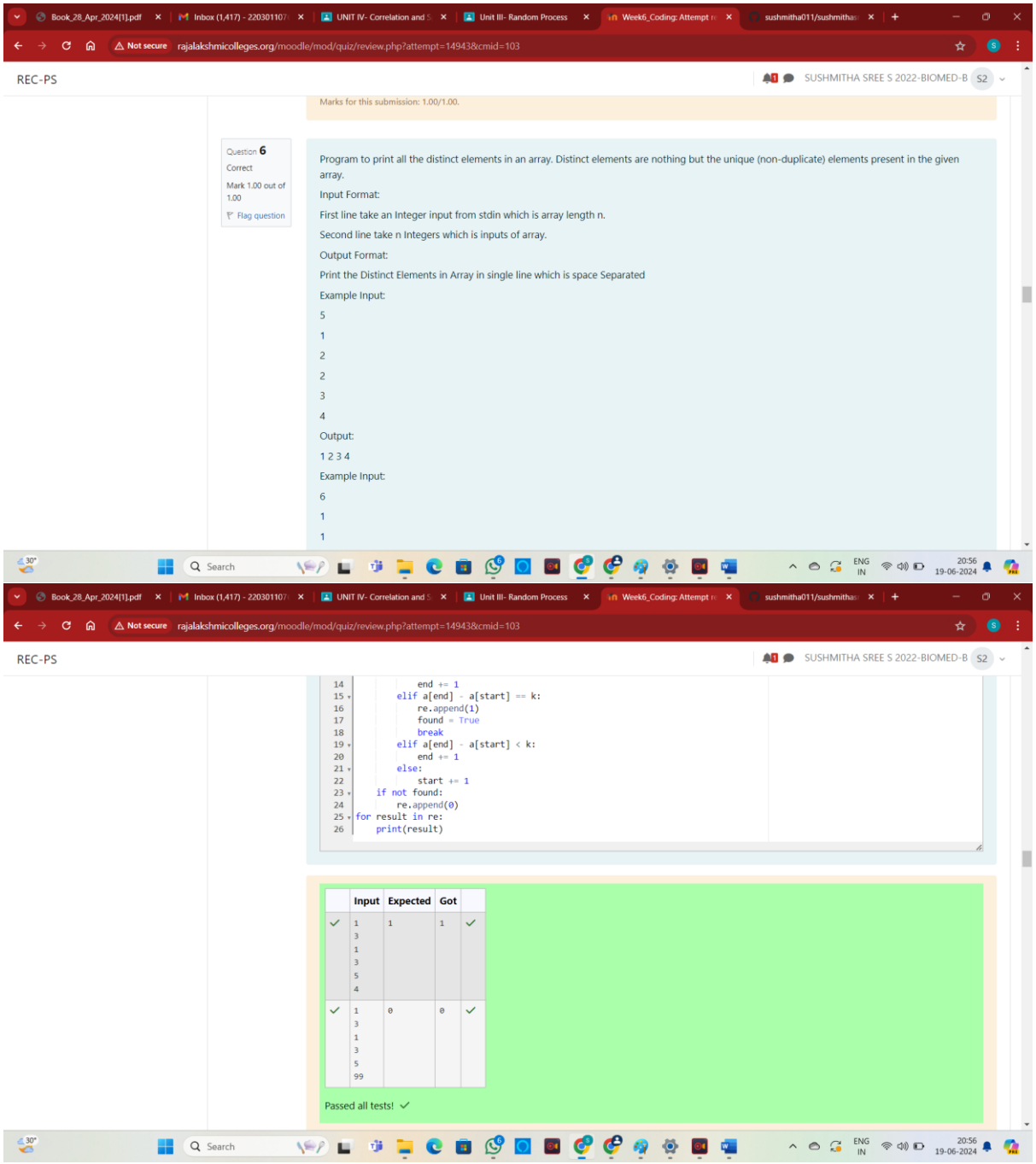
rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=14943&cmid=103
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
n = int(input())
arr = []
for _ in range(n):
arr.append(int(input()))
distinct_elements = []
for num in arr:
if num not in distinct_elements:
distinct_elements.append(num)
print(*distinct_elements)
Input
Expected
Got
5 1 2 2 3 4
1 2 3 4
1 2 3 4
6 1
1 2 3
1 2 3
Search
ENG
IN
20:56
19-06-2024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REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
Marks for this submission: 1.00/1.00.
Question 6
Correct
Mark 1.00 out of 1.00
Flag question
Program to print all the distinct elements in an array. Distinct elements are nothing but the unique (non-duplicate) elements present in the given array.
Input Format:
First line take an Integer input from stdin which is array length n.
Second line take n Integers which is inputs of array.
Output Format:
Print the Distinct Elements in Array in single line which is space Separated
Example Input:
5
1
2
2
3
4
Output:
1 2 3 4
Example Input:
6
1
1
Search
ENG
IN
20:56
19-06-2024

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Not secure
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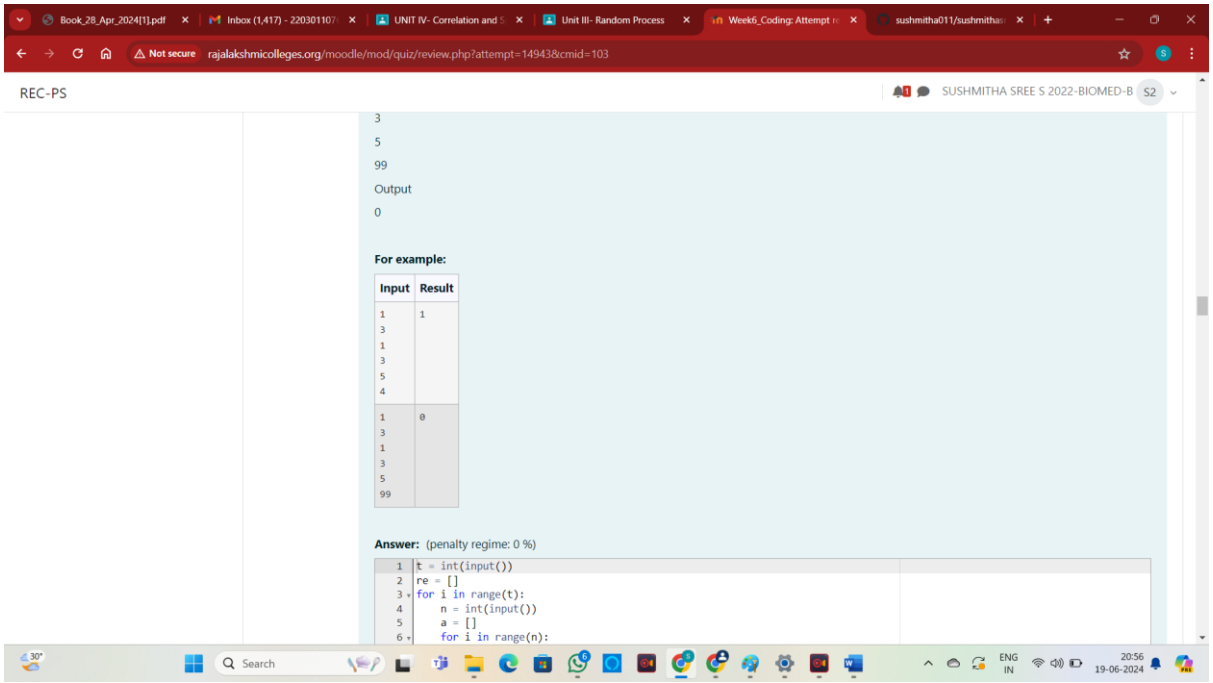
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
end += 1
elif a[end] - a[start] == k:
re.append(1)
found = True
break
elif a[end] - a[start] < k:
end += 1
else:
start += 1
if not found:
re.append(0)
for result in re:
print(result)
Input
Expected
Got
1 3 1 3 5 4
1
1
1 3 1 3 5 99
0
0
Passed all tests!
Search
ENG
IN
20:56
19-06-2024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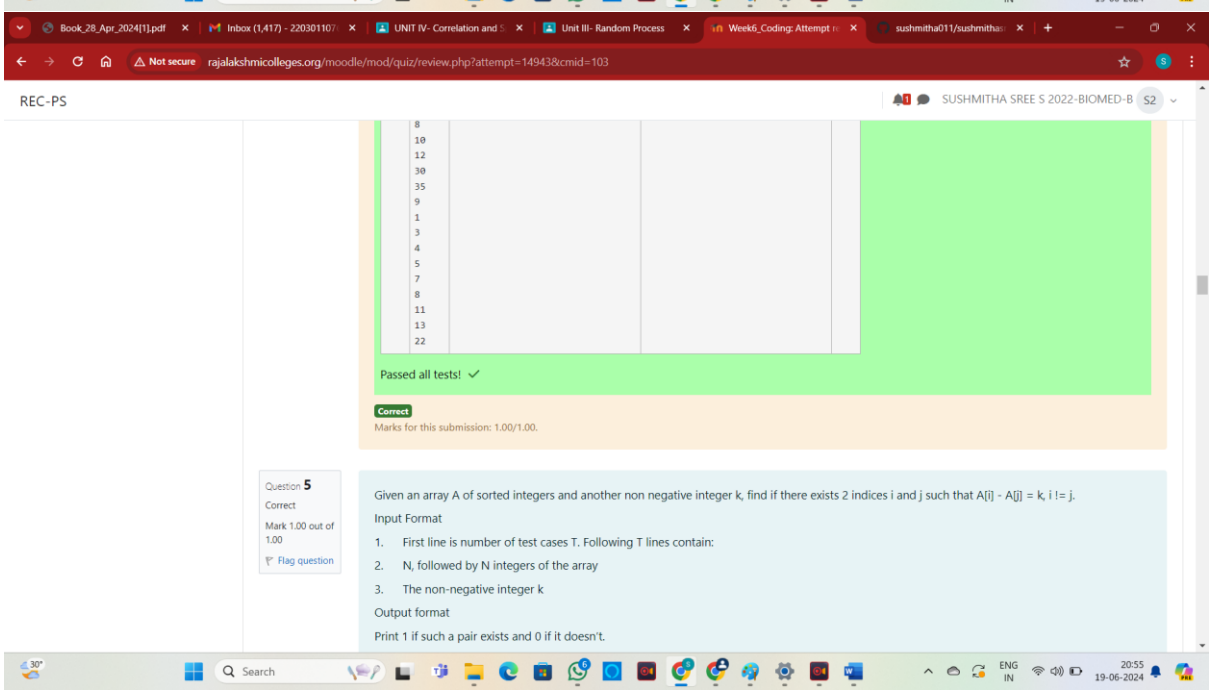
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
S2
3
5
99
Output
0
For example:
Input
Result
1 3 1 3 5 4
1
1 3 1 3 5 99
0
Answer: (penalty regime: 0 %)
1 t = int(input())
2 re = []
3 for i in range(t):
4 n = int(input())
5 a = []
6 for i in range(n):
Search
ENG IN
20:56 19-06-2024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Not secure
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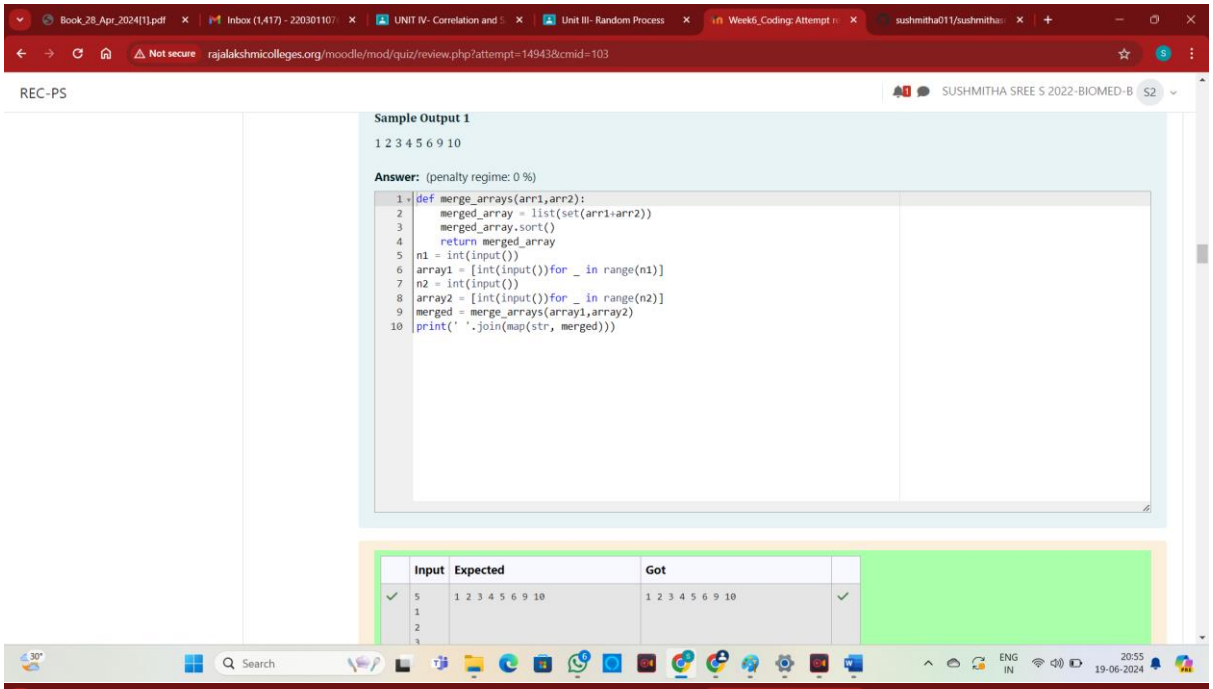
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
S2
8
10
12
30
35
9
1
3
4
5
7
8
11
13
22
Passed all tests!
Correct
Marks for this submission: 1.00/1.00.
Question 5
Correct
Mark 1.00 out of 1.00
Flag question
Given an array A of sorted integers and another non negative integer k, find if there exists 2 indices i and j such that A[i] - A[j] = k, i != j.
Input Format
1. First line is number of test cases T. Following T lines contain:
2. N, followed by N integers of the array
3. The non-negative integer k
Output format
Print 1 if such a pair exists and 0 if it doesn't.
Search
ENG IN
20:55 19-06-2024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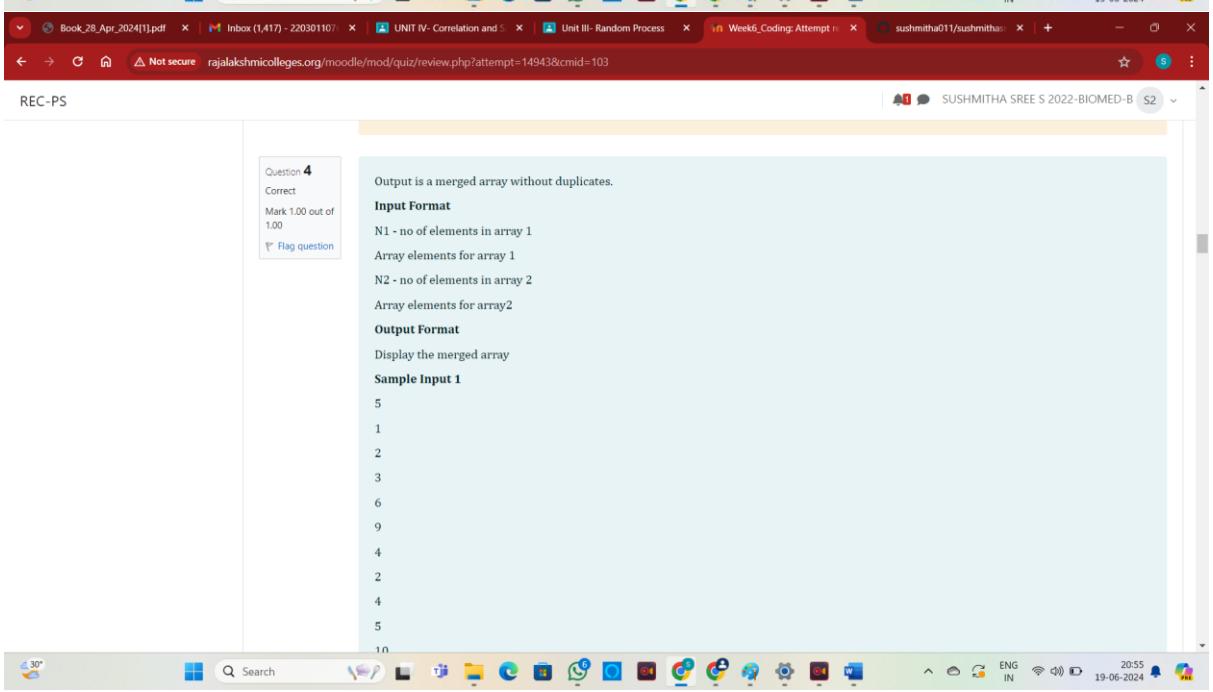
Unit III- Random Process
Week6_Coding: Attempt re
sushmitha011/sushmitha
Not secure
rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=14943&cmid=103
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
S2
Sample Output 1
1 2 3 4 5 6 9 10
Answer: (penalty regime: 0 %)
def merge_arrays(arr1,arr2):
merged_array = list(set(arr1+arr2))
merged_array.sort()
return merged_array
n1 = int(input())
array1 = [int(input())for _ in range(n1)]
n2 = int(input())
array2 = [int(input())for _ in range(n2)]
merged = merge_arrays(array1,array2)
print(' '.join(map(str, merged)))
Input
Expected
Got
5
1
2
3
1 2 3 4 5 6 9 10
1 2 3 4 5 6 9 10
Search
ENG
IN
20:55
19-06-2024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UNIT IV- Correlation and S
Unit III- Random Process
Week6_Coding: Attempt re
sushmitha011/sushmitha
Not secure
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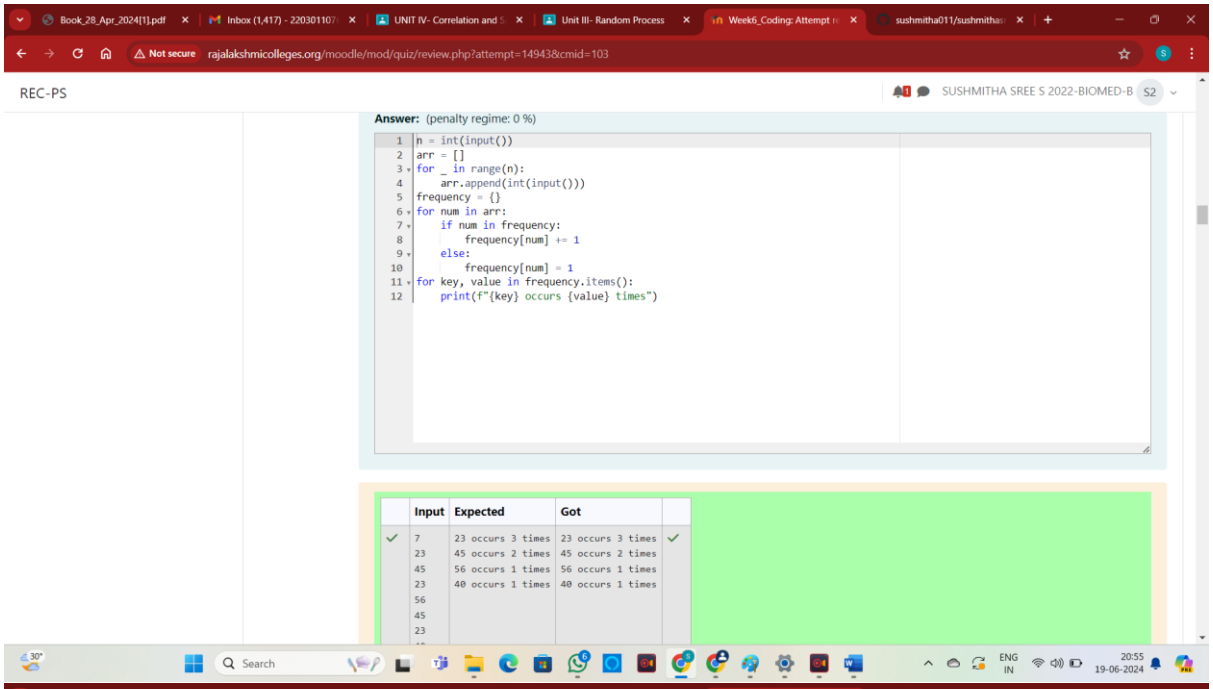
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
S2
Question 4
Correct
Mark 1.00 out of 1.00
Flag question
Output is a merged array without duplicates.
Input Format
N1 - no of elements in array 1
Array elements for array 1
N2 - no of elements in array 2
Array elements for array2
Output Format
Display the merged array
Sample Input 1
5
1
2
3
6
9
4
2
4
5
10
Search
ENG
IN
20:55
19-06-2024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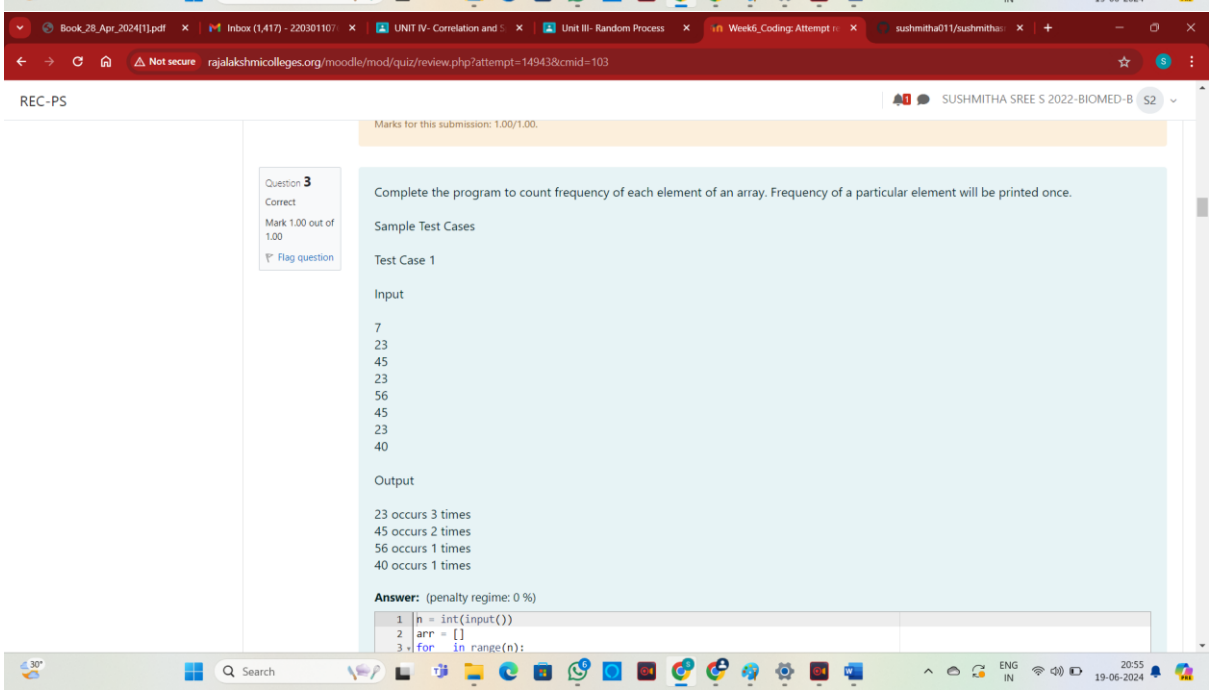
Week6_Coding: Attempt re
sushmitha011/sushmitha
Not secure
rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=14943&cmid=103
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
S2
Answer: (penalty regime: 0 %)
n = int(input())
arr = []
for _ in range(n):
arr.append(int(input()))
frequency = {}
for num in arr:
if num in frequency:
frequency[num] += 1
else:
frequency[num] = 1
for key, value in frequency.items():
print(f"{key} occurs {value} times")
Input
Expected
Got
7
23
45
23
56
45
23
23 occurs 3 times
45 occurs 2 times
56 occurs 1 times
40 occurs 1 times
23 occurs 3 times
45 occurs 2 times
56 occurs 1 times
40 occurs 1 times
Search
ENG
IN
20:55
19-06-2024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UNIT IV- Correlation and S
Unit III- Random Process
Week6_Coding: Attempt re
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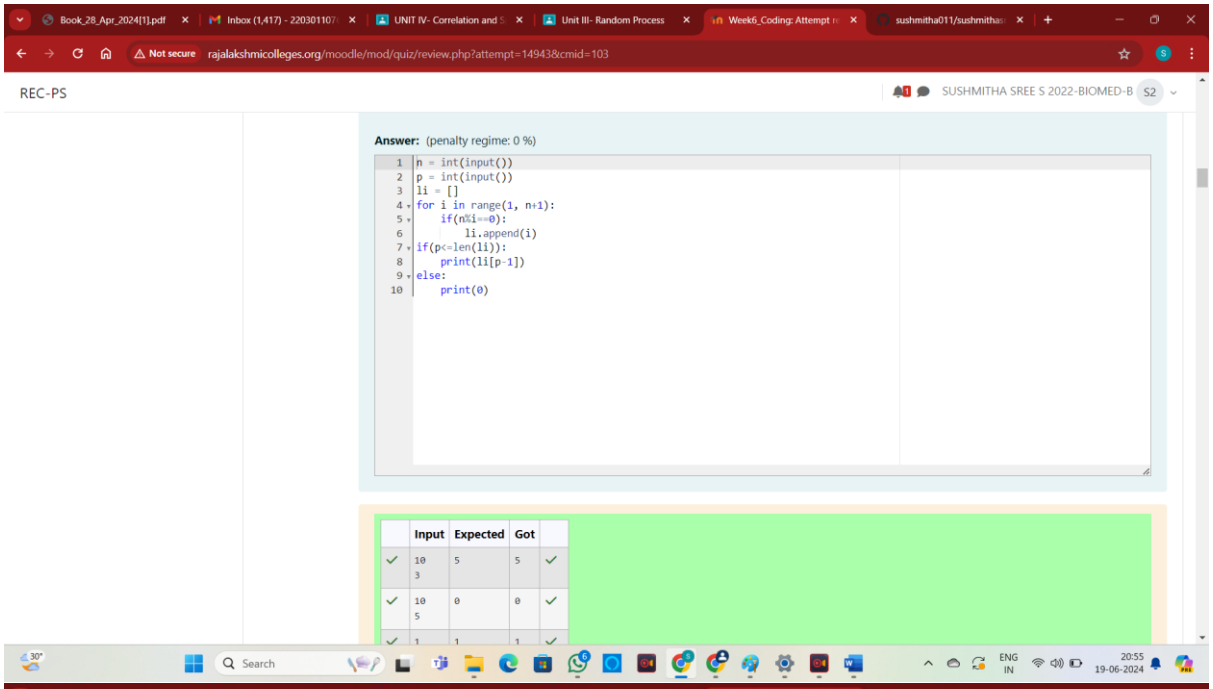
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
S2
Marks for this submission: 1.00/1.00.
Question 3
Correct
Mark 1.00 out of 1.00
Flag question
Complete the program to count frequency of each element of an array. Frequency of a particular element will be printed once.
Sample Test Cases
Test Case 1
Input
7
23
45
23
56
45
23
40
Output
23 occurs 3 times
45 occurs 2 times
56 occurs 1 times
40 occurs 1 times
Answer: (penalty regime: 0 %)
n = int(input())
arr = []
for _ in range(n):
Search
ENG
IN
20:55
19-06-2024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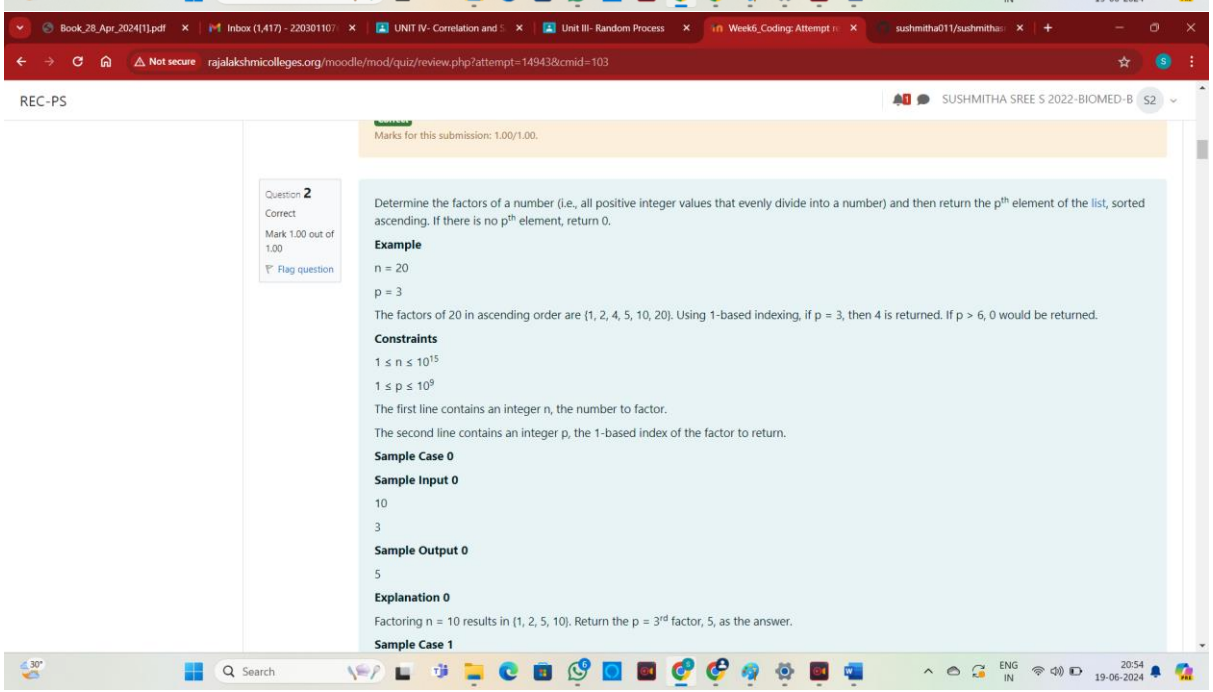
S2
Answer: (penalty regime: 0 %)
n = int(input())
p = int(input())
li = []
for i in range(1, n+1):
if(n%i==0):
li.append(i)
if(p<=len(li)):
print(li[p-1])
else:
print(0)
Input
Expected
Got
10
3
5
5
10
5
0
0
Search
ENG
IN
20:55
19-06-2024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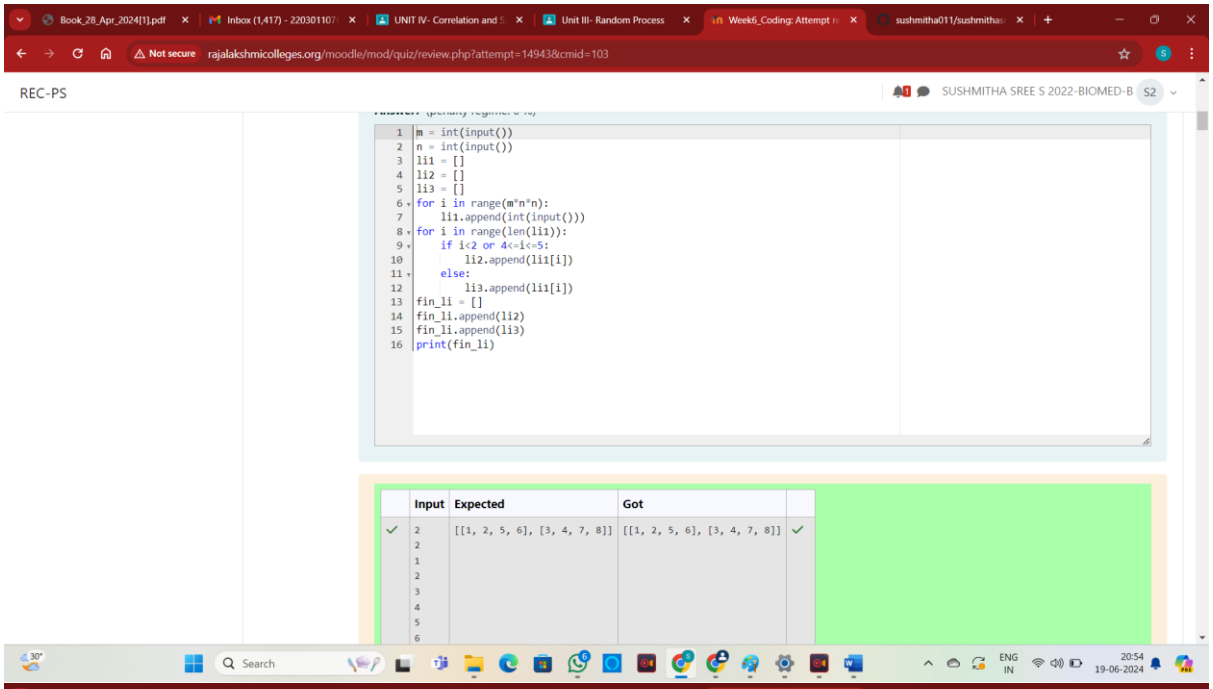
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
S2
Marks for this submission: 1.00/1.00.
Question 2
Correct
Mark 1.00 out of 1.00
Flag question
Determine the factors of a number (i.e., all positive integer values that evenly divide into a number) and then return the pth element of the list, sorted ascending. If there is no pth element, return 0.
Example
n = 20
p = 3
The factors of 20 in ascending order are {1, 2, 4, 5, 10, 20}. Using 1-based indexing, if p = 3, then 4 is returned. If p > 6, 0 would be returned.
Constraints
1 ≤ n ≤ 10^15
1 ≤ p ≤ 10^9
The first line contains an integer n, the number to factor.
The second line contains an integer p, the 1-based index of the factor to return.
Sample Case 0
Sample Input 0
10
3
Sample Output 0
5
Explanation 0
Factoring n = 10 results in {1, 2, 5, 10}. Return the p = 3rd factor, 5, as the answer.
Sample Case 1
Search
ENG
IN
20:54
19-06-2024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Week6_Coding: Attempt re
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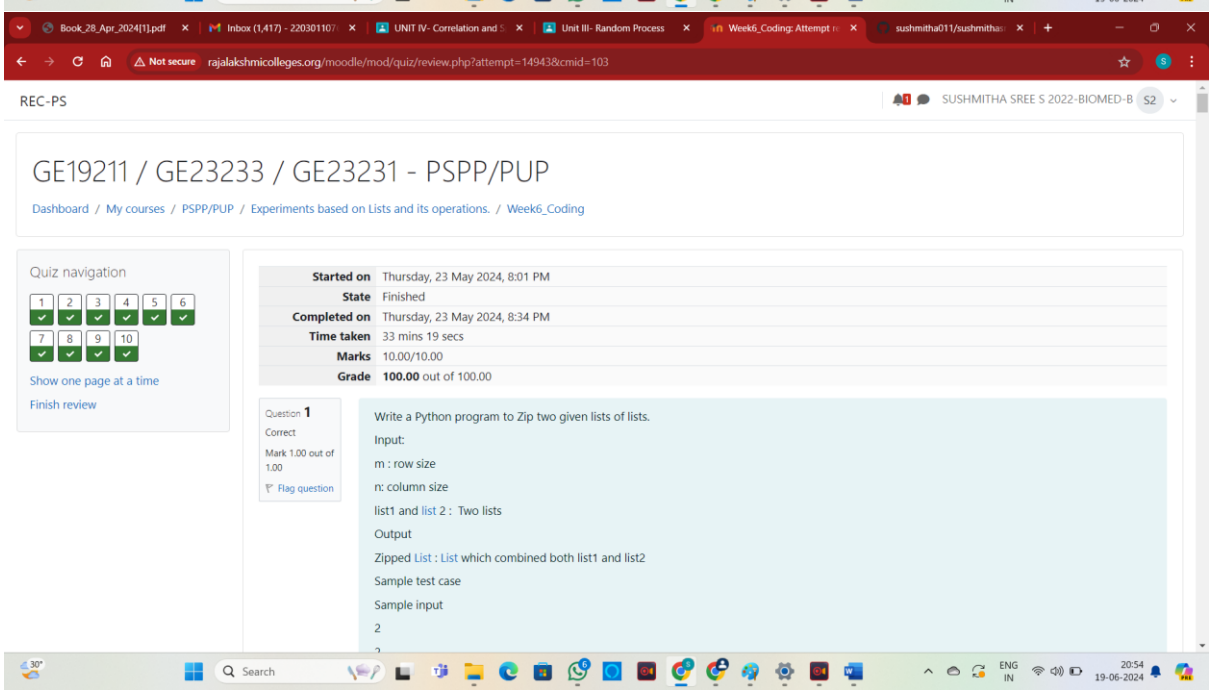
REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
S2
m = int(input())
n = int(input())
li1 = []
li2 = []
li3 = []
for i in range(m*n):
li1.append(int(input()))
for i in range(len(li1)):
if i<2 or 4<=i<=5:
li2.append(li1[i])
else:
li3.append(li1[i])
fin_li = []
fin_li.append(li2)
fin_li.append(li3)
print(fin_li)
Input
Expected
Got
2
2
1
2
3
4
5
6
[[1, 2, 5, 6], [3, 4, 7, 8]]
[[1, 2, 5, 6], [3, 4, 7, 8]]
Search
ENG
IN
20:54
19-06-2024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REC-PS
SUSHMITHA SREE S 2022-BIOMED-B
S2
GE19211 / GE23233 / GE23231 - PSPP/PUP
Dashboard / My courses / PSPP/PUP / Experiments based on Lists and its operations. / Week6_Coding
Quiz navigation
1 2 3 4 5 6
7 8 9 10
Show one page at a time
Finish review
Started on Thursday, 23 May 2024, 8:01 PM
State Finished
Completed on Thursday, 23 May 2024, 8:34 PM
Time taken 33 mins 19 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
Write a Python program to Zip two given lists of lists.
Input:
m : row size
n: column size
list1 and list 2 : Two lists
Output
Zipped List : List which combined both list1 and list2
Sample test case
Sample input
2
Search
ENG
IN
20:54
19-06-2024