Answer: (penalty regime: 0 %)

```
n = int(input().strip())
A = list(map(int, input().strip().split()))

peaks = [A[i] for i in range(n) if (i == 0 and A[i] >= A[i + 1]) or
                                  (i == n - 1 and A[i] >= A[i - 1]) or
                                  (0 < i < n - 1 and A[i] >= A[i - 1] and A[i] >= A[i + 1])]

print(" ".join(map(str, peaks)))
```

	Input	Expected	Got	
✓	7 15 7 10 8 9 4 6	15 10 9 6	15 10 9 6	✓
✓	4 12 3 6 8	12 8	12 8	✓

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	Input	Expected	Got	
✓	6 3 4 8 7 1 2	1 2 3 4 7 8	1 2 3 4 7 8	✓
✓	6 9 18 1 3 4 6	1 3 4 6 9 18	1 3 4 6 9 18	✓
✓	5 4 5 2 3 1	1 2 3 4 5	1 2 3 4 5	✓

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 list, find peak element in it. A peak element is an element that is greater than its neighbors.

An element a[i] is a peak element if

A[i-1] <= A[i] >=a[i+1] for middle elements. [0<i<n-1]

A[i-1] <= A[i] for last element [i=n-1]

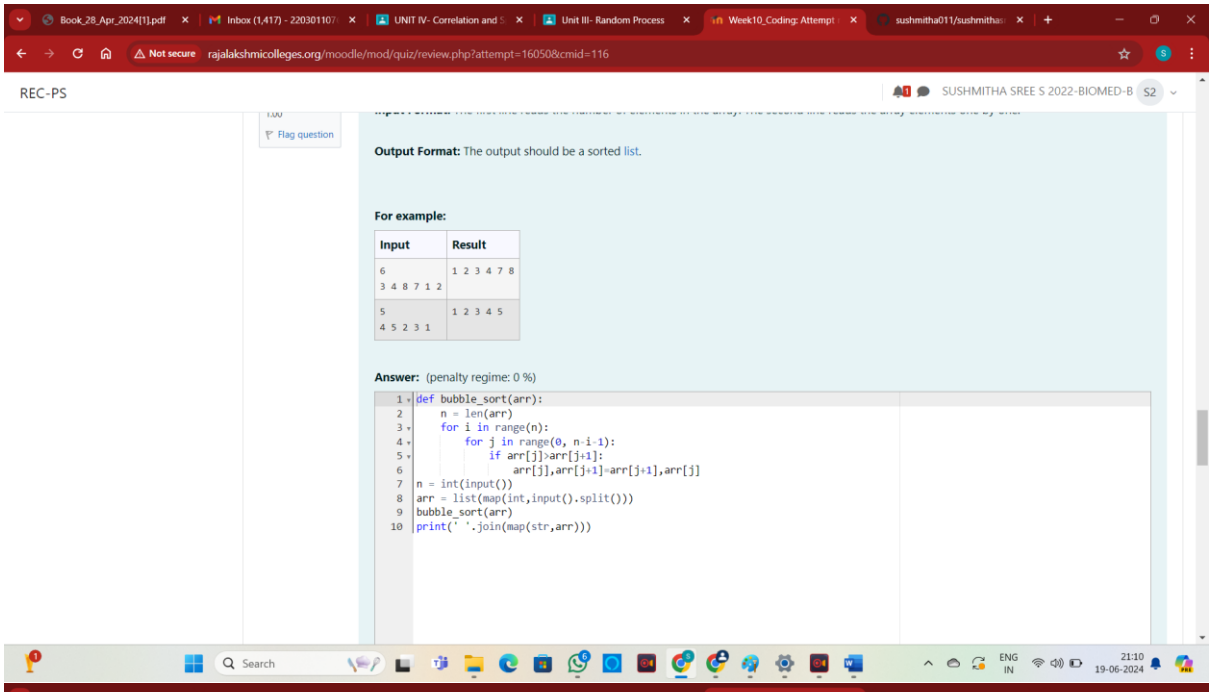
A[i]>=A[i+1] for first element [i=0]

Input Format

The first line contains a single integer n , the length of A .
The second line contains n space-separated integers,A[i].

Output Format

Print peak numbers separated by space.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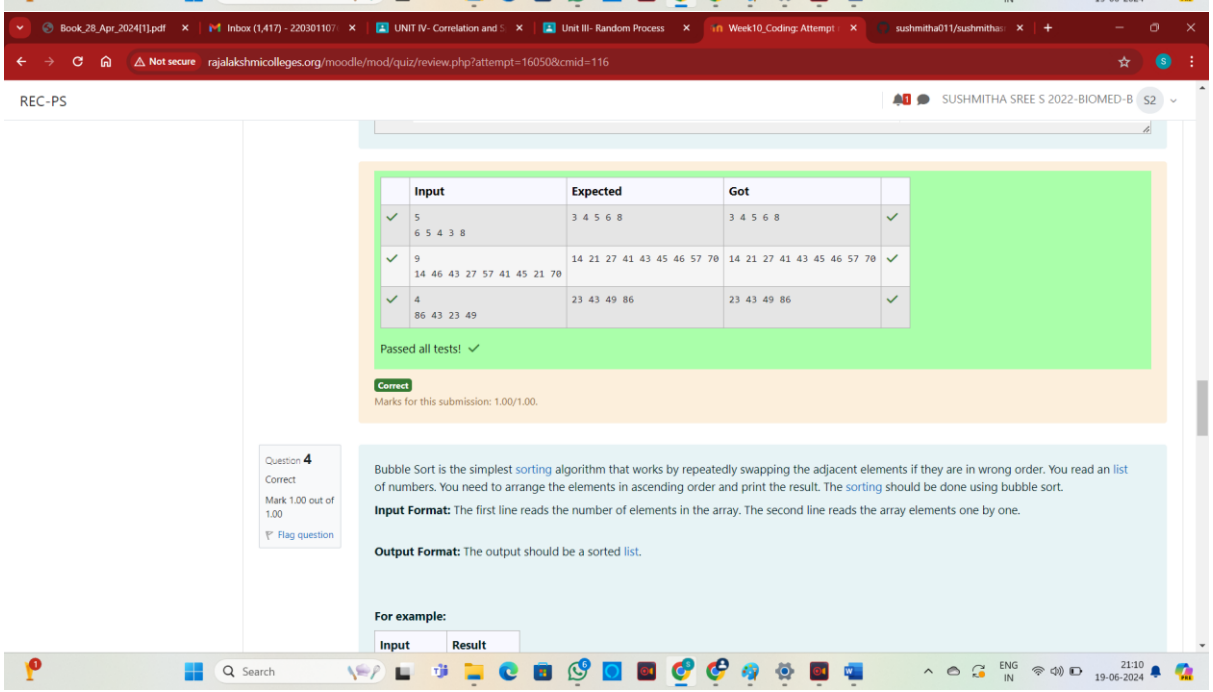
Flag question
Output Format: The output should be a sorted list.
For example:
Input
Result
6
3 4 8 7 1 2
1 2 3 4 7 8
5
4 5 2 3 1
1 2 3 4 5
Answer: (penalty regime: 0 %)
def bubble_sort(arr):
n = len(arr)
for i in range(n):
for j in range(0, n-i-1):
if arr[j]>arr[j+1]:
arr[j],arr[j+1]=arr[j+1],arr[j]
n = int(input())
arr = list(map(int,input().split()))
bubble_sort(arr)
print(' '.join(map(str,arr)))
Search
ENG
IN
21:10
19-06-2024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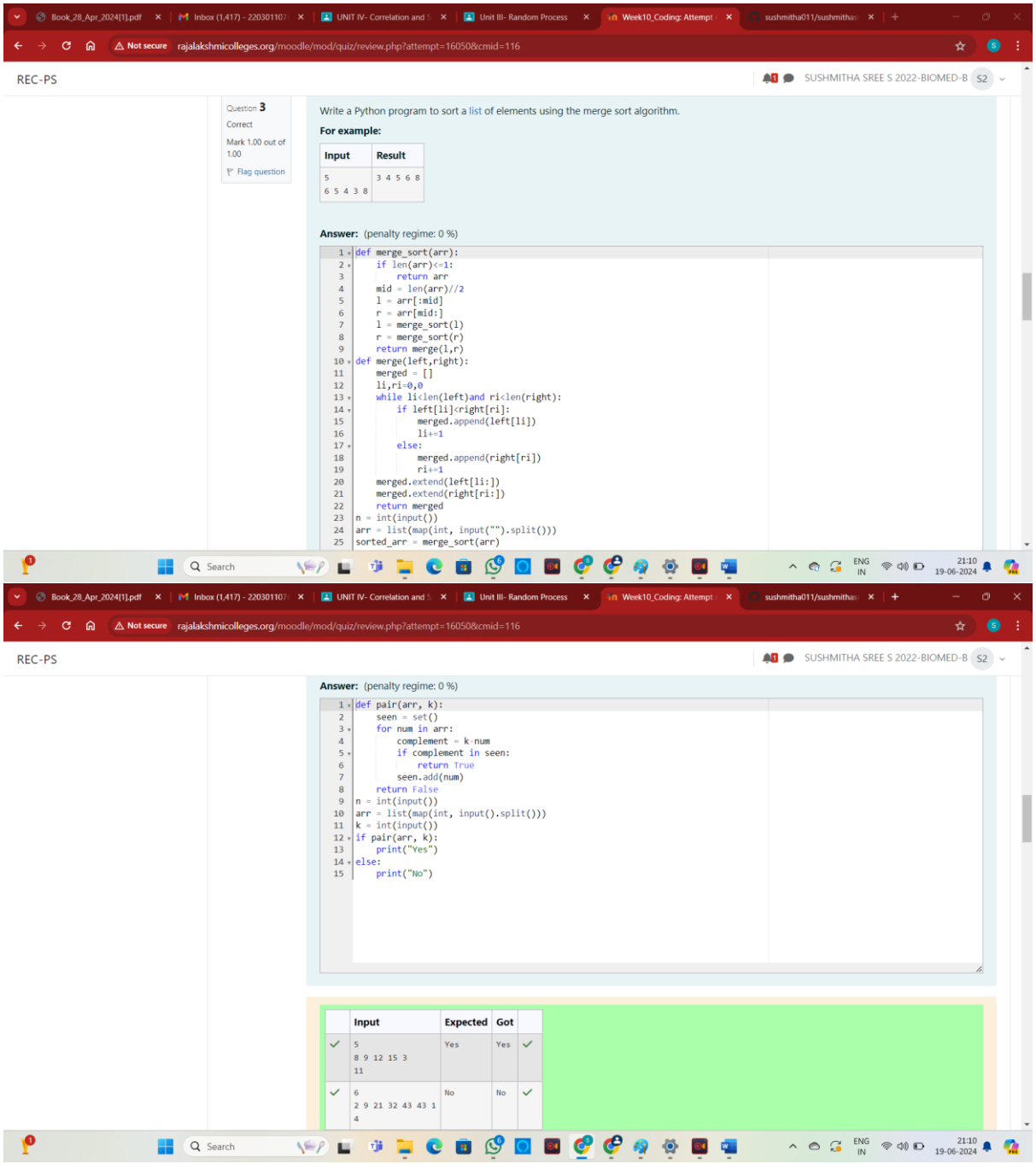
Input
Expected
Got
5
6 5 4 3 8
3 4 5 6 8
3 4 5 6 8
9
14 46 43 27 57 41 45 21 70
14 21 27 41 43 45 46 57 70
14 21 27 41 43 45 46 57 70
4
86 43 23 49
23 43 49 86
23 43 49 86
Passed all tests!
Correct
Marks for this submission: 1.00/1.00.
Question 4
Correct
Mark 1.00 out of 1.00
Flag question
Bubble Sort is the simplest sorting algorithm that works by repeatedly swapping the adjacent elements if they are in wrong order. You read an list of numbers. You need to arrange the elements in ascending order and print the result. The sorting should be done using bubble sort.
Input Format: The first line reads the number of elements in the array. The second line reads the array elements one by one.
Output Format: The output should be a sorted list.
For example:
Input
Result
Search
ENG
IN
21:10
19-06-2024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Question 3
Correct
Mark 1.00 out of 1.00
Flag question
Write a Python program to sort a list of elements using the merge sort algorithm.
For example:
Input
Result
5
6 5 4 3 8
3 4 5 6 8
Answer: (penalty regime: 0 %)
def merge_sort(arr):
if len(arr)<=1:
return arr
mid = len(arr)//2
l = arr[:mid]
r = arr[mid:]
l = merge_sort(l)
r = merge_sort(r)
return merge(l,r)
def merge(left,right):
merged = []
li,ri=0,0
while li<len(left)and ri<len(right):
if left[li]<right[ri]:
merged.append(left[li])
li+=1
else:
merged.append(right[ri])
ri+=1
merged.extend(left[li:])
merged.extend(right[ri:])
return merged
n = int(input())
arr = list(map(int, input("").split()))
sorted_arr = merge_sort(arr)
Search
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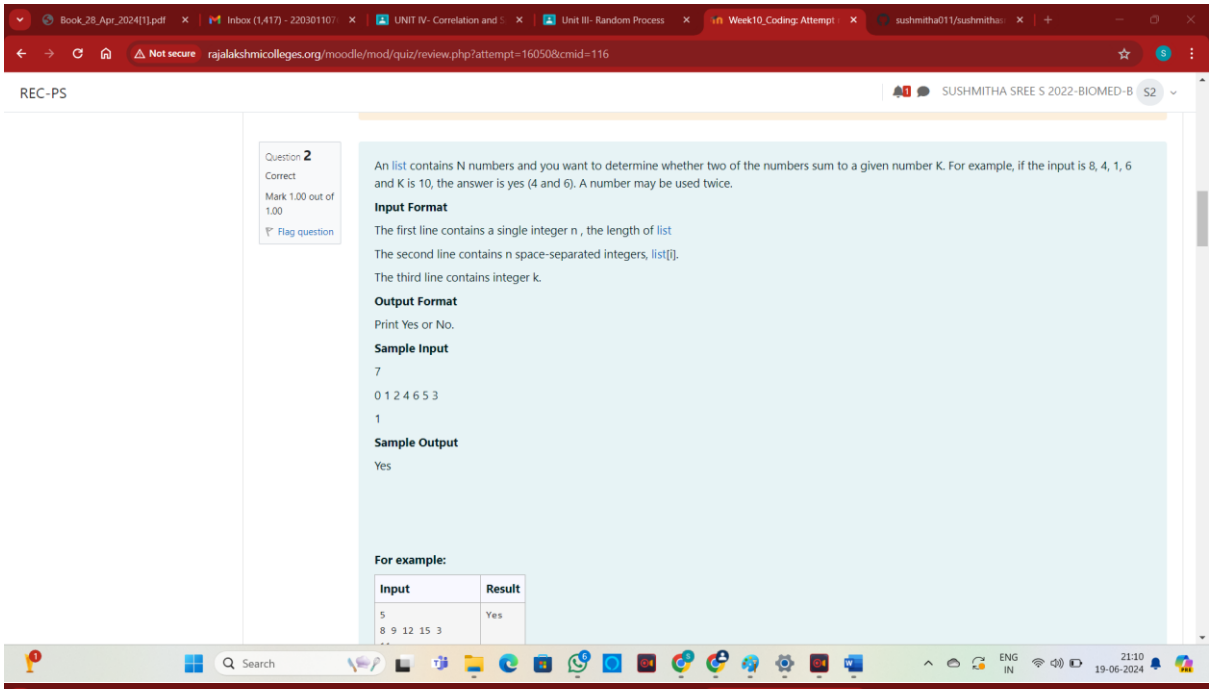
Answer: (penalty regime: 0 %)
def pair(arr, k):
seen = set()
for num in arr:
complement = k-num
if complement in seen:
return True
seen.add(num)
return False
n = int(input())
arr = list(map(int, input().split()))
k = int(input())
if pair(arr, k):
print("Yes")
else:
print("No")
Input
Expected
Got
5
8 9 12 15 3
11
Yes
Yes
6
2 9 21 32 43 43 1
4
No
No
Search
ENG
IN
21:10
19-06-2024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Question 2
Correct
Mark 1.00 out of 1.00
Flag question
An list contains N numbers and you want to determine whether two of the numbers sum to a given number K. For example, if the input is 8, 4, 1, 6 and K is 10, the answer is yes (4 and 6). A number may be used twice.
Input Format
The first line contains a single integer n , the length of list
The second line contains n space-separated integers, list[i].
The third line contains integer k.
Output Format
Print Yes or No.
Sample Input
7
0 1 2 4 6 5 3
1
Sample Output
Yes
For example:
Input
Result
5
8 9 12 15 3
Yes
Search
ENG
IN
21:10
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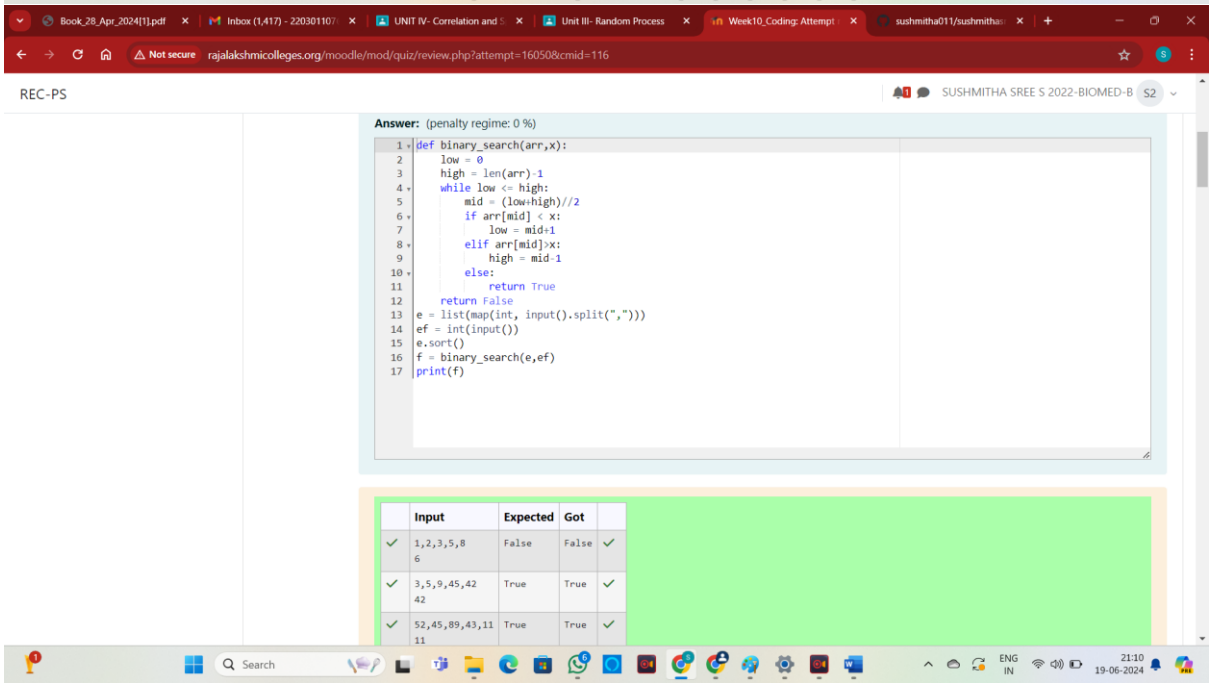
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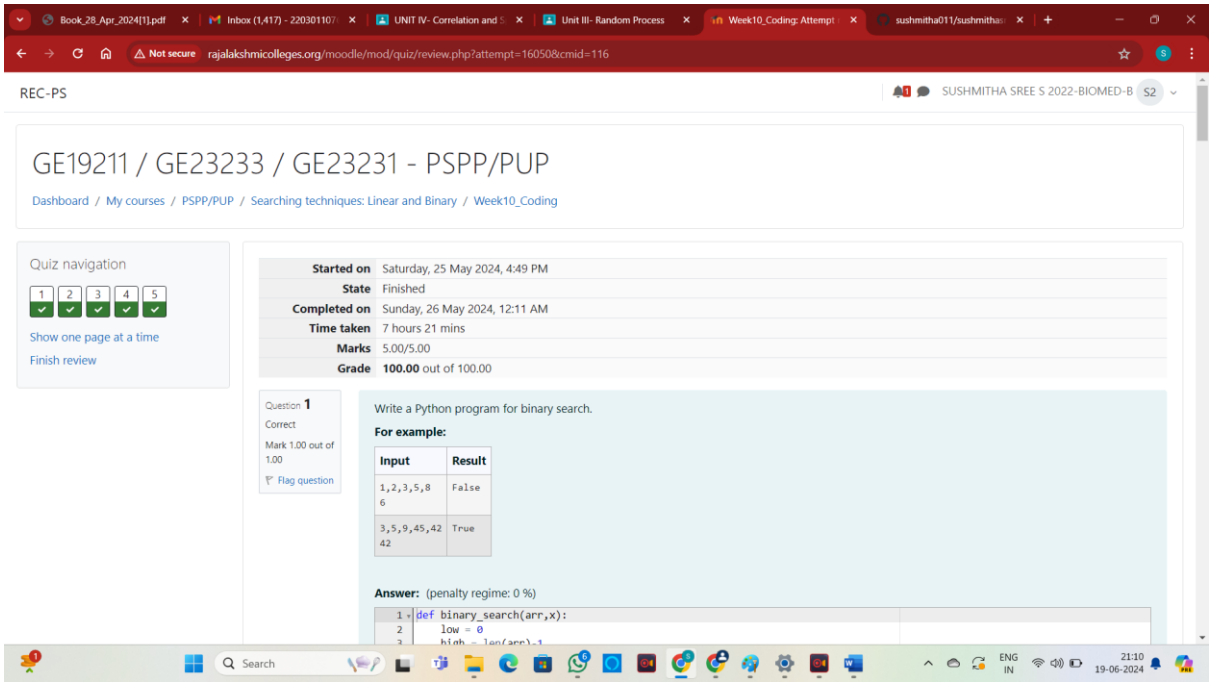
Answer: (penalty regime: 0 %)
def binary_search(arr,x):
low = 0
high = len(arr)-1
while low <= high:
mid = (low+high)//2
if arr[mid] < x:
low = mid+1
elif arr[mid]>x:
high = mid-1
else:
return True
return False
e = list(map(int, input().split(",")))
ef = int(input())
e.sort()
f = binary_search(e,ef)
print(f)
Input
Expected
Got
1,2,3,5,8
6
False
False
3,5,9,45,42
42
True
True
52,45,89,43,11
11
True
True
Search
ENG
IN
21:10
19-06-2024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S2
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Started on Saturday, 25 May 2024, 4:49 PM
State Finished
Completed on Sunday, 26 May 2024, 12:11 AM
Time taken 7 hours 21 mins
Marks 5.00/5.00
Grade 100.00 out of 100.00
Question 1
Correct
Mark 1.00 out of 1.00
Flag question
Write a Python program for binary search.
For example:
Input
Result
1,2,3,5,8 6
False
3,5,9,45,42 42
True
Answer: (penalty regime: 0 %)
def binary_search(arr,x):
low = 0
Search
ENG IN
21:10 19-06-2024