DIVYADHARSHINI V 2022-BIOMED-A D2 ~ REC-PS

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



Dashboard / My courses / PSPP/PUP / Searching techniques: Linear and Binary / Week10_Coding

Show one page at a time Finish review

Quiz navigation State Finished Time taken 4 hours 1 min Marks 5.00/5.00 Grade 100.00 out of 100.00

Question 1

Started on Saturday, 25 May 2024, 9:28 AM Completed on Saturday, 25 May 2024, 1:30 PM

Correct and K is 10, the answer is yes (4 and 6). A number may be used twice. Mark 1.00 out of **Input Format** 1.00 The first line contains a single integer n , the length of list F Flag question The second line contains n space-separated integers, list[i]. The third line contains integer k. Print Yes or No.

Output Format Sample Input 0124653

Sample Output Yes

Result

return "Yes"

Expected Got

Yes 🗸

Yes

Answer: (penalty regime: 0 %) 1 - def has_pair_with_sum(arr, k): seen = set() for num in arr: complement = k - numif complement in seen: 6 seen.add(num) return "No" # Input 10 11 | n = int(input()) 12 | arr = list(map(int, input().split())) 13 | k = int(input()) 14 # Output 15 16 | print(has_pair_with_sum(arr, k))

Input

Passed all tests! < Correct Marks for this submission: 1.00/1.00. Write a Python program for binary search. For example: Result Input 1,2,3,5,8 False 3,5,9,45,42 True

mid = (left + right) // 2

left = mid + 1

right = mid - 1

Expected Got

To find the frequency of numbers in a list and display in sorted order.

False

True

if A[mid] == B:

C = True

break elif A[mid] < B:

else:

Input

11

Constraints:

Input:

1<=n, arr[i]<=100

Result

Answer: (penalty regime: 0 %)

Input

Passed all tests! <

Marks for this submission: 1.00/1.00.

4 3 5 3 4 5

12 4 4 4 2 3 5 2 1

5 4 5 4 6 5 7 3 3 1

3 2 4 2

5 2

3 1

4 3

5 1

12 1

4 2

5 3

6 1 7 1

The second line contains n, space-separated integers a[i].

2 1

3 1

4 3

5 1

12 1

3 1

4 2

5 3 6 1

7 1

2

1 | arr = list(map(int, input().split()))

print(num, arr.count(num))

3 * for num in sorted(set(arr)):

Answer: (penalty regime: 0 %) 2 B = int(input()) 3 left, right = 0, len(A) - 1 4 C = False 5 while left <= right: 6 8 9 10 v 11 12 + 13 14 print(C)

Question 2

Mark 1.00 out of

Flag question

Correct

1.00

1,2,3,5,8 3,5,9,45,42 ✓ 52,45,89,43,11 True Passed all tests! < Marks for this submission: 1.00/1.00. Question 3

Correct

1.00

Mark 1.00 out of

Flag question

Question 4 Given an listof integers, sort the array in ascending order using the Bubble Sort algorithm above. Once sorted, print the following three lines: Correct Mark 1.00 out of P Flag question Array is sorted in 3 swaps. First Element: 1 Last Element: 6 **Input Format**

Constraints

Output Format

2<=n<=600

 $1 <= a[i] <= 2x10^6$.

You must print the following three lines of output: 1. List is sorted in numSwaps swaps., where numSwaps is the number of swaps that took place. 2. First Element: firstElement, the first element in the sorted list. 3. Last Element: lastElement, the *last* element in the sorted list. Sample Input 0 3 123 Sample Output 0 First Element: 1 Last Element: 3

> 3 2 1 1 9 2 8 4 First Element: 1 Answer: (penalty regime: 0 %) 1 n = int(input()) arr = list(map(int, input().split())) swaps = 0 5 - for i in range(n): 10

Input

Last Element: 3

Last Element: 9

List is sorted in 4 swaps.

for j in range(n - 1):

12 print(f"First Element: {arr[0]}") 13 print(f"Last Element: {arr[-1]}")

if arr[j] > arr[j + 1]:

print(f"List is sorted in {swaps} swaps.")

swaps += 1

~ Correct

Question 5

Mark 1.00 out of

F Flag question

Correct

1.00

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 $A[i-1] \le A[i] \ge a[i+1]$ for middle elements. $[0 \le i \le n-1]$ $A[i-1] \le A[i]$ 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. Sample Input 5 891026 **Sample Output** 10 6

For example: Input Result 12 8 12 3 6 8 Answer: (penalty regime: 0 %) 1 v def find_peak_elements(arr): # Input 4 n = int(input()) arr = list(map(int, input().split())) # Output print(*find_peak_elements(arr)) 10

12 3 6 8 Passed all tests! < Correct Marks for this submission: 1.00/1.00. → Week10_MCQ

Data retention summary

PSPP/PUP

You are logged in as <u>DIVYADHARSHINI V 2022-BIOMED-A</u> (<u>Log out</u>)

Input

15 7 10 8 9 4 6

Expected Got

12 8

Jump to...

12 8

No Yes 🗸 Yes 1 | A = sorted(list(map(int, input().split(','))))

> False 🗸 True 🗸 True 🗸

List is sorted in numSwaps swaps., where numSwaps is the number of swaps that took place. First Element: firstElement, the first element in the sorted list. Last Element: lastElement, the last element in the sorted list. For example, given a worst-case but small array to sort: a=[6,4,1]. It took 3 swaps to sort the array. Output would be The first line contains an integer, n, the size of the list a.

List is sorted in 0 swaps. For example: Result List is sorted in 3 swaps. First Element: 1

Expected Input Got List is sorted in 3 swaps. List is sorted in 3 swaps. 🗸 3 2 1 First Element: 1 First Element: 1 Last Element: 3 Last Element: 3 List is sorted in 4 swaps. List is sorted in 4 swaps. 🗸 1 9 2 8 4 First Element: 1 First Element: 1 Last Element: 9 Last Element: 9 Passed all tests! < Marks for this submission: 1.00/1.00.

arr[j], arr[j + 1] = arr[j + 1], arr[j]

return [arr[i] for i in range(len(arr)) if (i == 0 or arr[i] >= arr[i - 1]) and (i == len(arr) - 1 or arr[i] >= a 15 10 9 6 15 10 9 6 🗸 ~

Finish review

Sorting -