■ KEERTHIVASAN S 2022-BIOMED-A K2 ~ REC-PS

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Quiz navigation

Completed on Monday, 27 May 2024, 12:44 AM Time taken 4 mins 21 secs Show one page at a time Marks 5.00/5.00 Finish review Question 1 Correct Constraints: Mark 1.00 out of 1<=n, arr[i]<=100 P Flag question Input:

Grade 100.00 out of 100.00

12

42

51

68 2

79 1

90 1

For example:

4 3 5 3 4 5 3 2

Result

else:

print(num, freq)

if num in frequency_dict:

frequency_dict[num] += 1

frequency_dict[num] = 1

Input

State Finished

Started on Monday, 27 May 2024, 12:39 AM

To find the frequency of numbers in a list and display in sorted order. 1 68 79 4 90 68 1 4 5 output:

Question 2

Mark 1.00 out of

₱ Flag question

Correct

Answer: (penalty regime: 0 %) 1 def frequency_counter(arr): frequency_dict = {} 3 + for num in arr: 4 v 5 6 + 7 sorted_frequency = sorted(frequency_dict.items()) 8 for num, freq in sorted_frequency: 9 10 arr = list(map(int, input().split())) 11 frequency_counter(arr)

12 1 3 1 4 2 5 3 6 1 7 1 Passed all tests! < Correct Marks for this submission: 1.00/1.00. 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 0124653

Result

Yes

5 print("Yes" if found else "No")

Expected Got

Yes 🗸

No

Write a Python program to sort a list of elements using the merge sort algorithm.

Sample Output

For example:

8 9 12 15 3

2 9 21 32 43 43 1

Answer: (penalty regime: 0 %)

1 |n = int(input())

3 k = int(input())

Input

11

6

17

Correct

For example:

Input

6 5 4 3 8

5

7

8

9

Input

~

Correct

Question 4

Mark 1.00 out of

P Flag question

Correct

6 5 4 3 8

86 43 23 49

Marks for this submission: 1.00/1.00.

Array is sorted in 3 swaps.

First Element: 1

Last Element: 6

Input Format

Constraints

Output Format

Sample Input 0

Sample Output 0

First Element: 1

Last Element: 3

For example:

Input

3 2 1

2 3

4

5 6 7

8

9 1

3

List is sorted in 0 swaps.

Result

1 9 2 8 4 First Element: 1

Answer: (penalty regime: 0 %)

1 - def bubble_sort(arr): n = len(arr)

num_swaps = 0

for i in range(n):

swapped = False

if not swapped:

break

for j in range(0, n - i - 1):

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

num_swaps += 1 swapped = True

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

Got

First Element: 1

List is sorted in 3 swaps.

List is sorted in 4 swaps.

First Element: 1 Last Element: 3

Last Element: 9

3

123

2<=n<=600

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

Passed all tests! ✓

14 46 43 27 57 41 45 21 70

Question 3

Mark 1.00 out of

P Flag question

Correct

1.00

Passed all tests! <

8 9 12 15 3

2 9 21 32 43 43 1

13 42 31 4 8 9

Marks for this submission: 1.00/1.00.

Result

Answer: (penalty regime: 0 %)

1 |n = int(input())

3 + def merge_sort(arr): 4 v if len(arr) <= 1:

> return arr mid = len(arr) // 2

10 print(*merge_sort(arr))

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

left_half = merge_sort(arr[:mid])

right_half = merge_sort(arr[mid:])

return sorted(left_half + right_half)

Expected

3 4 5 6 8

23 43 49 86

First Element: firstElement, the first element in the sorted list.

Last Element: lastElement, the last element in the sorted list.

The first line contains an integer,n, the size of the list a.

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

You must print the following three lines of output:

First Element: firstElement, the first element in the sorted list.

Last Element: lastElement, the last element in the sorted list.

Got

3 4 5 6 8

23 43 49 86

3 4 5 6 8

Input

11

Yes

2 | nums = list(map(int, input().split())) 4 | found = any(nums[i] + nums[j] == k for i in range(n) for j in range(i + 1, n))

14 21 27 41 43 45 46 57 70 14 21 27 41 43 45 46 57 70 Given an listof integers, sort the array in ascending order using the Bubble Sort algorithm above. Once sorted, print the following three lines: List is sorted in numSwaps swaps., where numSwaps is the number of swaps that took place.

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 1. List is sorted in numSwaps swaps., where numSwaps is the number of swaps that took place.

Finish review

Sorting -

return arr, num_swaps n = int(input()) a = list(map(int, input().split())) sorted_list, num_swaps = bubble_sort(a) print(f"List is sorted in {num_swaps} swaps.") 31 print(f"First Element: {sorted_list[0]}") 32 | print(f"Last Element: {sorted_list[-1]}") Input Expected List is sorted in 3 swaps. List is sorted in 3 swaps. 🗸 First Element: 1 3 2 1 Last Element: 3 5 List is sorted in 4 swaps. 1 9 2 8 4 First Element: 1 Last Element: 9 Passed all tests! <

C = True

elif A[mid] < B:

right = mid - 1

left = mid + 1

break

else:

9

10 11

12 +

14 print(C)

Last Element: 3 List is sorted in 4 swaps. 🗸 First Element: 1 Last Element: 9

Expected Got False False 🗸 √ 3,5,9,45,42 True True ✓ 52,45,89,43,11 True True 🗸 Marks for this submission: 1.00/1.00. Jump to...

Question 5 Correct Mark 1.00 out of 1.00 P Flag question

Correct Marks for this submission: 1.00/1.00. Write a Python program for binary search. For example: Input Result False 1,2,3,5,8 3,5,9,45,42 True **Answer:** (penalty regime: 0 %) 1 | A = sorted(list(map(int, input().split(',')))) 2 B = int(input()) 3 left, right = 0, len(A) - 1 4 C = False 5 - while left <= right: mid = (left + right) // 2if A[mid] == B: 7 + 8

Input 1,2,3,5,8 Passed all tests! < Correct

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