GitHub Dashboard | Week10_Coding: Attempt revie

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REC-PS

SAMYUKTHAA A 2022-BIOMED-B S2

Finish review

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 41	True

Answer: (penalty regime: 0 %)

```
A = sorted(list(map(int, input().split(','))))
B = int(input())
left, right = 0, len(A) - 1
C = False
while left <= right:
    mid = (left + right) // 2
    if A[mid] == B:
        C = True
        break
    elif A[mid] < B:
        left = mid + 1
    else:
        right = mid - 1
print(C)
```

	Input	Expected	Got	
✓	1,2,3,5,8 6	False	False	✓
✓	3,5,9,45,42 41	True	True	✓
✓	52,45,88,43,11 11	True	True	✓

Passed all tests! ✓

90°F Mostly cloudy

Search

ENG IN 18:30 19-06-2024

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For example:

Input	Result
4 3 5 3 4 5	3 2 4 2 5 2

Answer: (penalty regime: 0 %)

```
A = list(map(int,input().split()))
for B in sorted(set(A)):
    print(B,A.count(B))
```

	Input	Expected	Got	
✓	4 3 5 3 4 5	3 2 4 2 5 2	3 2 4 2 5 2	✓
✓	12 4 4 4 2 3 5	2 1 3 1 4 3 5 1 12 1	2 1 3 1 4 3 5 1 12 1	✓
✓	5 4 5 4 6 5 7 3	3 1 4 2 5 3 6 1 7 1	3 1 4 2 5 3 6 1 7 1	✓

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	Last Element: 3
5 1 9 2 8 4	List is sorted in 4 swaps. First Element: 1 Last Element: 9

Answer: (penalty regime: 0 %)

```
n = int(input())
arr = list(map(int, input().split()))
e = 0
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]
            e += 1
print(f"List is sorted in {e} swaps.")
print(f"First Element: {arr[0]}")
print(f"Last Element: {arr[-1]}")

```

	Input	Expected	Got	
✓	3 3 2 1	List is sorted in 3 swaps. First Element: 1 Last Element: 3	List is sorted in 3 swaps. First Element: 1 Last Element: 3	✓
✓	5 1 9 2 8 4	List is sorted in 4 swaps. First Element: 1 Last Element: 9	List is sorted in 4 swaps. First Element: 1 Last Element: 9	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 4

Correct

Mark 1.00 out of

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.

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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
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 %)

```
n = int(input())
arr = list(map(int, input().split()))
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]
print(*arr)

```

	Input	Expected	Got	
✓	6 3 4 8 7 1 2	1 2 3 4 7 8	1 2 3 4 7 8	✓
✓	6 9 10 1 3 4 6	1 3 4 6 9 10	1 3 4 6 9 10	✓

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Search

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Input	Result
5 8 9 12 15 3 11	Yes
6 2 9 21 32 43 43 1 4	No

Answer: (penalty regime: 0 %)

```
n = int(input())
a = list(map(int, input().split()))
k = int(input())
seen = set()
found = False
for num in a:
    b = k - num
    if b in seen:
        found = True
        break
    seen.add(num)
if found:
    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	✓
✓	6 13 42 33 4 8 9 17	Yes	Yes	✓

Passed all tests! ✓

Correct