Started on	Tuesday, 7 May 2024, 8:49 PM
State	Finished
Completed on	Wednesday, 8 May 2024, 11:57 AM
Time taken	15 hours 8 mins
Marks	5.00/5.00
Grade	**50.00** out of 50.00 (**100**%)
Name	AKSAYAA S V 2022-CSD-A

Question **1**

Correct

Mark 1.00 out of 1.00

Write a Python program that takes two lists and returns True if they have at least one common member.

First line of input contains List 1

Second line of input contains List 2

Output is True if there is atleast one common element, false if no common elements

For example:

Input	Result
10 20 30 40 50 12 25 85 40 21	True

Answer: (penalty regime: 0 %)

```
def have_common_element(list1, list2):
    set1 = set(list1)
    set2 = set(list2)

    return bool(set1.intersection(set2

list1 = input().split()

list2 = input().split()

result = have_common_element(list1, li

print(result)

```

	Input	Expected	Got	
✔	10 20 30 40 50 12 25 85 40 21	True	True	✔
✔	1 2 3 4 5 7 8 9 10 11	False	False	✔
✔	10 20 30 20 20 30	True	True	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **2**

Correct

Mark 1.00 out of 1.00

Write a program that reads integers from the user and stores them in a list. Your program should continue reading values until the user enters 0. Then it should display all of the values entered by the user (except for the 0) in ascending order, with one value appearing on each line. Use either the sort method or the sorted function to sort the list.

Sample Input

```
20
30
40
50
10
0
```

```
Sample Output
```

```
10
20
30
40
50
```

For example:

Input	Result
20 30 40 50 10 0	10 20 30 40 50

Answer: (penalty regime: 0 %)

```
numbers = []

while True:
    num = int(input())
    if num == 0:
        break
    numbers.append(num)

numbers.sort()

for num in numbers:
    print(num)
```

	Input	Expected	Got	
✔	20 30 40 50 10 0	10 20 30 40 50	10 20 30 40 50	✔
✔	22 33 44 11 55 0	11 22 33 44 55	11 22 33 44 55	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **3**

Correct

Mark 1.00 out of 1.00

Given a list and we have to find the index/position of minimum and maximum elements of a list in Python.

```
if list = [10, 1, 2, 20, 3, 20]
```

then it must print

1

20

First line of input is no of elements in a list

Followed by n inputs one by one.

Output line 1 contains index of minimum element

Output line 2 contains index of maximum element

Note: if more than one element is minimum / maximum then first index will be considered.

For example:

Input	Result
3 10 20 15	0 1

Answer: (penalty regime: 0 %)

```
n = int(input())

lst = []
for _ in range(n):
    lst.append(int(input()))

min_index = lst.index(min(lst))

max_index = lst.index(max(lst))

print(min_index)

print(max_index)

```

	Input	Expected	Got	
✔	3 10 20 15	0 1	0 1	✔

	Input	Expected	Got	
✔	5 12 15 85 65 11	4 2	4 2	✔
✔	6 6 5 4 3 2 1	5 0	5 0	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **4**

Correct

Mark 1.00 out of 1.00

You are given an array of N integers, A1, A2, . . . , AN and an integer K. Return the of count of distinct numbers in all windows of size K.

Input :

1 2 1 3 4 3

3

Output :

2

3

3

2

Explanation

All windows of size K are

[1, 2, 1]

[2, 1, 3]

[1, 3, 4]

[3, 4, 3]

Answer: (penalty regime: 0 %)

```
def count_distinct_in_windows(arr,
    distinct_counts = []
    freq_map = {}
    distinct_count = 0

    for i in range(k):
        freq_map[arr[i]] = freq_map
        if freq_map[arr[i]] == 1:
            distinct_count += 1
    distinct_counts.append(distinct_

    for i in range(k, len(arr)):
        left_elem = arr[i - k]
        right_elem = arr[i]

        freq_map[left_elem] -= 1
        if freq_map[left_elem] == 0
            distinct_count -= 1

        freq_map[right_elem] = freq_
        if freq_map[right_elem] ==
```

	Input	Expected	Got	
✔	1 2 1 3 4 3 3	2 3 3 2	2 3 3 2	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **5**

Correct

Mark 1.00 out of 1.00

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 2 2 3 3

Output:

1 2 3

For example:

Input	Result
5 1 2 2 3 4	1 2 3 4

Answer: (penalty regime: 0 %)

```
n=int(input())
arr=[]
for i in range(n):
    arr.append(int(input()))
distinct_ele=[]
for num in arr:
    if num not in distinct_ele:
        distinct_ele.append(num)
print(*distinct_ele,sep=" ")
```

	Input	Expected	Got	
✔	5 1 2 2 3 4	1 2 3 4	1 2 3 4	✔
✔	6 1 1 2 2 3 3	1 2 3	1 2 3	✔
✔	5 11 22 11 22 11	11 22	11 22	✔
✔	10 1 2 3 4 5 1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

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