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Started on	Friday, 5 April 2024, 12:53 PM
State	Finished
Completed on	Friday, 26 April 2024, 2:29 PM
Time taken	21 days 1 hour
Marks	5.00/5.00
Grade	50.00 out of 50.00 (100%)
Name	JUNIDE CHRIS A 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 %)

```

1  # Input the lists
2  list1 = input().split()
3  list2 = input().split()
4
5  # Convert lists to sets for efficient membership testing
6  set1 = set(list1)
7  set2 = set(list2)
8
9  # Check if there is any common element
10 if set1.intersection(set2):
11     print(True)
12 else:
13     print(False)

```

	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

A teacher in a school entered marks in an array. But mistakenly the teacher repeated the marks twice in between the array. Help the teacher to find how many elements are duplicated in an array

Input:

n – number of elements and the elements to be stored in an array.

Output:

d- number of duplicate elements

Sample Test Case**Input**

8

21 35 56 67 67 89 89 90

Output

2

Explanation

The numbers 67 and 89 are repeated , so count is 2

Answer: (penalty regime: 0 %)

```

1 | n = int(input())
2 | marks = list(map(int, input().split()))
3 | dup = len(marks)-len(set(marks))
4 | print(dup)

```

	Input	Expected	Got	
✓	8 21 35 56 67 67 89 89 90	2	2	✓
✓	12 56 56 78 78 90 90 95 97 97 99 99 89	5	5	✓
✓	4 67 67 89 90	1	1	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 3

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	10
30	20
40	30
50	40
10	50
0	

Answer: (penalty regime: 0 %)

```
1 # Initialize an empty list to store integers
2 numbers = []
3
4 # Read integers from the user until 0 is entered
5 while True:
6     num = int(input())
7     if num == 0:
8         break
9     numbers.append(num)
10
11 # Sort the list in ascending order
12 numbers.sort()
13
14 # Display the sorted list
15 for num in numbers:
16     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 **4**

Correct

Mark 1.00 out of 1.00

An array is monotonic if it is either **monotone increasing** or **monotone decreasing**.

An array A is monotone increasing if for all $i \leq j$, $A[i] \leq A[j]$. An array A is monotone decreasing if for all $i \leq j$, $A[i] \geq A[j]$.

Write a program if n array is monotonic or not. Print "True" if is monotonic or "False" if it is not. Array can be monotone increasing or decreasing.

Input Format:

First line n-get number of elements

Next n Lines is the array of elements

Output Format:

True ,if array is monotone increasing or decreasing.

otherwise False is printed

Sample Input1

4

5

6

7

8

Sample Output1

True

Sample Input2

4

6

5

4

3

Sample Output2

True

Sample Input 3

4

6

7

8

7

Sample Output3

False

For example:

Input	Result
4 6 5 4 3	True

Answer: (penalty regime: 0 %)

```

1 n = int(input())
2 l = []
3
4 for i in range(n):
5     x = int(input())
6     l.append(x)
7
8
9 def CheckAsc(l):
10     if(l[0] == 3):
11         return False
12     for i in range(len(l) - 1):      #0 1 2 3
13         if l[i] <= l[i + 1]:
14             pass
15         else:
16             return False
17     return True
18
19 def CheckDesc(l):
20     for i in range(len(l) - 1):
21         if(l[i] >= l[i + 1]):
22             pass

```

	Input	Expected	Got	
✓	4 6 5 4 3	True	True	✓
✓	4 3 5 7 9	False	False	✓
✓	4 1 6 9 2	False	False	✓
✓	4 9 6 4 2	True	True	✓
✓	3 2 1 4	False	False	✓

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 3 4
1	
2	
2	
3	
4	

Answer: (penalty regime: 0 %)

```
1 n=int(input())
2 List=[]
3 for i in range(n):
4     List.append(int(input()))
5 result=list(set(List))
6 for i in result:
7     print(i,end= " ")
```

	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.

◀ Week-05_MCQ

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