
Started on Thursday, 11 April 2024, 5:34 PM

State Finished

Completed on Thursday, 11 April 2024, 5:54 PM

Time taken 19 mins 50 secs

Marks 5.00/5.00

Grade 50.00 out of 50.00 (100%)

Name [ISHWARYA M 2022-CSD-A](#)

Question 1

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 %)

```
1 n = int(input())
2 arr = []
3 for i in range(0,n):
4     x = int(input())
5     arr.append(x)
6 arr = set(arr)
7 for i in arr:
8     print(i,end = " ")
9
10
```

	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.

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 s = input()
3 count = 0
4 arr = s.split()
5 for i in range(0,n-1):
6     if(arr[i]==arr[i+1]):
7         count = count+1
8 print(count)
```

	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

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 arr = []
```

```

3▼ for i in range(0,n):
4    x = int(input())
5    arr.append(x)
6    sort = sorted(arr)
7    rev = sort.reverse()
8▼ if(sort==arr):
9    print("True")
10▼ elif(rev==arr):
11    print("True")
12▼ else:
13    print("False")

```

	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 4

Correct

Mark 1.00 out of 1.00

Create a program that reads integers from the user until a -99 is entered. Once all of the integers have been read your program should display all of the negative numbers, followed by all of the zeros, followed by all of the positive numbers. Within each group, the numbers should be displayed in the same order that they were entered by the user. For example, if the user enters the values 3, -4, 1, 0, -1, 0, and -2 then your program should output the values -4, -1, -2, 0, 0, 3, and 1. Your program should display each value on its own line. (-99 is not included in the final display)

Sample Input

0
5
10
-15
-20
-99

Sample Output

-15
-20
0
5
10

For example:

Input	Result
0	-15
5	-20
10	0
-15	5
-20	10
-99	

Answer: (penalty regime: 0 %)

```
1 x = int(input())
2 n = 0
3 arr = [0]
4 while(x!=-99):
5     arr[n] = x
6     x = int(input())
7     arr.append(x)
8     n = n + 1
9 temp = 0
10 for i in range (0,n):
11     for j in range(i,n):
12         if(arr[i]>arr[j]):
13             temp = arr[i]
14             arr[i] = arr[j]
15             arr[j] = temp
16 temp = arr[0]
17 arr[0] = arr[1]
18 arr[1] = temp
19 for k in range (0,n):
```

```
20 | print(arr[k])
```

	Input	Expected	Got	
✓	0	-15	-15	✓
	5	-20	-20	
	10	0	0	
	-15	5	5	
	-20	10	10	
	-99			
✓	10	-40	-40	✓
	20	-50	-50	
	30	0	0	
	-40	10	10	
	-50	20	20	
	0	30	30	
	-99			

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 5

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	0
10	1
20	
15	

Answer: (penalty regime: 0 %)

```
1 n = int(input())
2 arr = []
3 for i in range(0,n):
4     x = int(input())
5     arr.append(x)
6 h = arr.index(max(arr))
7 l = arr.index(min(arr))
8 print(l)
9 print(h)
```

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

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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