

**Started on** Friday, 29 March 2024, 7:10 PM

**State** Finished

**Completed on** Friday, 29 March 2024, 7:31 PM

**Time taken** 21 mins 29 secs

**Marks** 5.00/5.00

**Grade** **50.00** out of 50.00 (**100%**)

**Name** [DWIJESH SREERAM S 2022-CSD-A](#)



## Question 1

Correct

Mark 1.00 out of 1.00

Write a program that reads integers from the user and stores them in a list. Use 0 as a sentinel value to mark the end of the input. Once all of the values have been read your program should display them (except for the 0) in reverse order, with one value appearing on each line.

Sample Input

```
33
11
22
55
44
0
```

Sample Output

```
55
44
33
22
11
```

For example:

Input	Result
33	55
11	44
22	33
55	22
44	11
0	

Answer: (penalty regime: 0 %)

```
1 n=[]
2 while True:
3     num=int(input())
4     if num==0:
5         break
6     n.append(num)
7 n.sort(reverse=True)
8 for num in n:
9     print(num)
10
11
12
```



	Input	Expected	Got	
✓	33 11 22 55 44 0	55 44 33 22 11	55 44 33 22 11	✓
✓	50 40 20 10 30 0	50 40 30 20 10	50 40 30 20 10	✓
✓	1 2 3 4 5 6 7 8 9 0	9 8 7 6 5 4 3 2 1	9 8 7 6 5 4 3 2 1	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.



Question **2**

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 | numbers = [int(input()) for _ in range(n)]
3 | min_index = numbers.index(min(numbers))
4 | max_index = numbers.index(max(numbers))
5 | print(min_index)
6 | print(max_index)
7 |
```



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

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 arr = []
3 for i in range(n):
4     arr.append(int(input()))
5 distinct_arr = []
6 for i in arr:
7     if i not in distinct_arr:
8         distinct_arr.append(i)
9 print(*distinct_arr)
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 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 # Initialize lists for negative, zero, and positive numbers
2 negative_numbers = []
3 zeroes = []
4 positive_numbers = []
5
6 # Input loop until -99 is entered
7 while True:
8     num = int(input())
9     if num == -99:
10         break
11     elif num < 0:
12         negative_numbers.append(num)
```





```

13 elif num == 0:
14     zeroes.append(num)
15 else:
16     positive_numbers.append(num)
17
18 # Output the numbers in the desired order
19 for num in negative_numbers:
20     print(num)
21 for num in zeroes:
22     print(num)
23 for num in positive_numbers:
24     print(num)
25

```

	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

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 lists
2 list1 = input().split()
3 list2 = input().split()
4
5 # Flag to indicate if common element is found
6 found_common = False
7
8 # Iterate through elements of list1
9 for element in list1:
10     # If element is found in list2, set flag and break loop
11     if element in list2:
12         found_common = True
13         break
14
15 # Output True if common element is found, otherwise False
16 print(found_common)
17

```

	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.

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