Started on	Tuesday, 26 March 2024, 7:06 AM
State	Finished
Completed on	Tuesday, 26 March 2024, 11:11 AM
Time taken	4 hours 5 mins
Marks	5.00/5.00
Grade	**50.00** out of 50.00 (**100**%)
Name	TAMILARASI R 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. 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 %)

```python
1  List=[]
2  while True:
3      num=int(input())
4      if num==0:
5          break
6      List.append(num)
7  List.sort()
8  for i  in List:
9      print(i)
```

	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 **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 10 20 15	0 1

Answer: (penalty regime: 0 %)

```
1  n=int(input())
2  List=[]
3  for i in range(n):
4      List.append(int(input()))
5  min_val=min(List)
6  print(List.index(min_val))
7  max_val=max(List)
8  print(List.index(max_val))
```

	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

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  List1=[]
2  List1=list(map(int,input().split()))
3  List2=[]
4  List2=list(map(int,input().split()))
5 ▾if set(List1) & set(List2):
6      print("True")
7 ▾else:
8      print("False")
9
```

	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 **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  List=[]
 2  negative=[]
 3  while True:
 4      num=int(input())
 5      if num==-99:
 6          break
 7      if num>=0:
 8          List.append(num)
 9      if num<0:
10          negative.append(num)
11  List.sort()
12  negative.sort(reverse=True)
```

```
13 ▾ for i in negative:
14       print(i)
15 ▾ for j in List:
16       print(j)
```

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

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **5**

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 %)

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

	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.

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