

# WEEK 3 - LIST HARD QUESTIONS

## NOTE:

- No need to submit anywhere, just keep track of all the PDF you made in a specific folder.
- Compare your solution with the solution I'll provide, in case of doubts, kindly reach out to me.
- You may get assignment solution in format of PDF or VIDEO solution, depending on the difficulty level.

**Q1.** Write a Python code to check if a given list is sorted in ascending order.

**You don't have to change the list. Just output YES if list is sorted else NO.**

**Q2.** Given two sorted lists, write a Python code to merge them into a single sorted list.

**Don't use SORT() method.**

**Q3.** Write a python program to check if the list contains three consecutive common numbers in Python.

```
Input : [4, 5, 5, 5, 3, 8]
```

```
Output : 5
```

```
Input : [1, 1, 1, 64, 23, 64, 22, 22, 22]
```

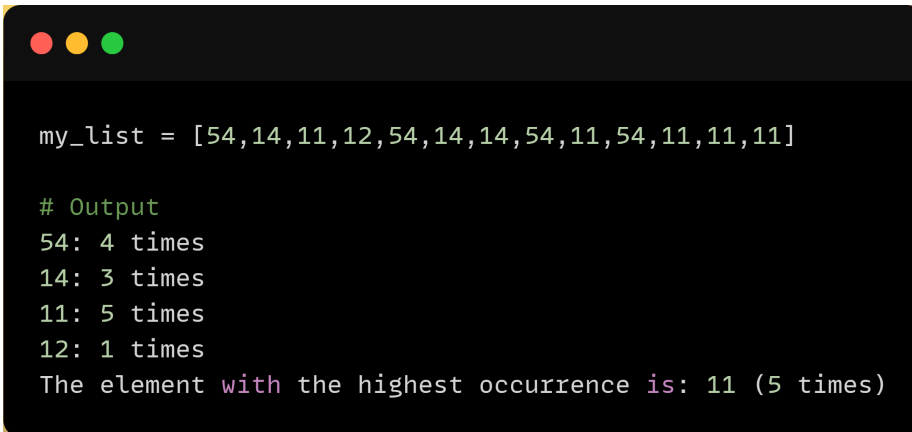
```
Output : 1, 22
```

```
Input : [54,1,4,56,67,879,22]
```

```
Output: No
```

**Q4.** Write a Python code to check if a list is a palindrome (reads the same forwards and backwards). Just print "YES" or "NO"

**Q5.** Write a Python code to find the occurrence of each element in a list and print the element with the highest occurrence.

A terminal window with a dark background and three colored window control buttons (red, yellow, green) in the top-left corner. It contains Python code to find the most frequent element in a list.

```
my_list = [54,14,11,12,54,14,14,54,11,54,11,11,11]

# Output
54: 4 times
14: 3 times
11: 5 times
12: 1 times
The element with the highest occurrence is: 11 (5 times)
```

**Q6.** Write a Python code to find the difference between two lists (i.e., elements present in the first list but not in the second).

**Q7.** Write a Python code to find the second largest element in a list without sorting.