PRACTICE CODING LESSON 16



AGENDA



- 01 Find 3 largest numbers teams coding challenge
- **02** Team presentations
- 03 Project work in groups

CODE CHALLENGE DESCRIPTION

- Write a function that takes in some array of at least 3 integers and returns an array of the 3 largest integers in this input array.
- Caveat: implement this function WITHOUT SORTING the input array. You cannot sort, you can ONLY TRAVERSE.
- Hint: can you keep track of the three largest numbers in our array as you traverse the input array?
- This is a team challenge and each team will present their approach EVEN IF IT IS NOT READY.
- You have 45 min to solve this.

IMPORTANT

The function can return duplicate integers if there are any.

For example, if your input array is: [11, 4, 8, 11, 15]

Result will be: [11, 11, 15]

EXAMPLES

```
# CASE 1
array = [141, 1, 17, -7, -17, -27, 18, 541, 8, 7, 7]
result = [18, 141, 541]
# CASE 2
array = [8, 8, 8, 8, 8, 8, 8, 8, 10, 8, 8, 8, 8, 8]
result = [8, 8, 10]
# CASE 3
array = [1, 1, 1, 1, 1, 1, 1, 1]
result = [1, 1, 1]
```

TEAM PRESENTATIONS





Your instructor will talk you through the approach and solution to this problem.





- For the remaining time work in your designated groups on your projects
- Instructors are available to help if you have any questions or would like to bounce some ideas around with regards to implementation.



THANK YOU!