**Day 1 Goals**

Welcome to Day 1 of the DSA Coding Challenge:

Today's Goals (Arrays) :

-Learn Big O Analysis to find Time and Space complexity

-Array Data Structure Crash Course

Question 1: *Sorted Squared Array* - You are given an array of Integers in which each subsequent value is not less than the previous value. Write a function that takes this array as an input and returns a new array with the squares of each number sorted in ascending order.

Question 2: *Monotonic Array -*An array is monotonic if it is either monotone increasing or monotone decreasing. An array is monotone increasing if all its elements from left to right are non-decreasing. An array is monotone decreasing if all  its elements from left to right are non-increasing. Given an integer array return true if the given array is monotonic, or false otherwise.

All the best !