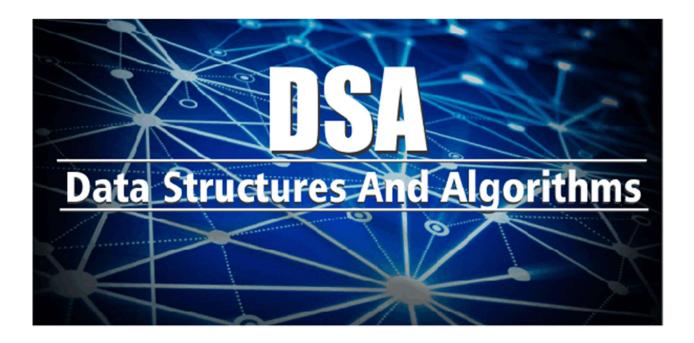
SOS 2021: Plan of Action

Data Structures and Algorithms

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Projected Timeline of the Project:

- Phase 1: (18 May 25 May)
 - This week will include VS code installation and revision of C++ by solving some basic programming problems on hackerrank. And also include learning following basic topics of DSA:
 - Arrays
 - Sorting Bubble sort, Insertion Sort
 - Watching Videos 1- 28 of Youtube Course, and solve problems on Hackerrank
- Phase 2: (26 May 14 June)
 - In this phase I'll start with some advanced topics in DSA. And watch videos 29 - 142 of given Youtube channel and solve relevant problems on Hackerank These topics include:
 - String, BIT manipulation
 - Recursion

- Sorting Algorithms Merge Sort, Count Sort, DNF sort, Wave sort
- Linked Lists
- Stacks
- Binary Tree
- Heaps
- Hashing

15 June: Mid-summer Report Submission and Modified Plan of Action Submission

- Phase 3: (16 June 14 July)
 - This phase include covering last few topics and mostly involve practice solving problems in Hackerrank. These topics would be:
 - Greedy Algorithm
 - Graphs (Main focus)
 - Dynamic Programming
 - Miscellaneous Concepts
 - Problem solving in Hackerrank

15 July: SOS final Report Submission and Video Submission

End Goal

Learn concepts in Data structures and Algorithms and solve atleast 100 problems of DSA on hackerrank.