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بسم الله الرحمن الرحيم

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GDSC Problem Solving Plan

Firstly :

Knowing the level of all participates (Basics - Intermediate - Advanced)

Basics :

1- What is programming & Printing
2- Variables
3- Conditions
4- Arrays
5- Loops
6- Functions
7- Struct

Intermediate :

1- STLS (Vector – Queue – etc…)
2- Data structure

   Arrays – Stack – Queue – Linkedlist – (Tree – Graph) => Basics .

3- Algorithms
   Time Complexity – Space Complexity
   Sorting Algorithms

   1- Selection
   2- Insertion
   3- Bubble
   4- Merge
   5- Quick

Searching

    1- Linear Search

    2- Binary Search

Advanced :

1- DFS – BFS

2- Dynamic Programming (DP)

3- Backtracking

4- Some of more advanced algorithms

Secondly :

- Solving a Problems to practice to all of these from
Codeforces Sheets – Leetcode .

- Make a problems competitions for participates .

- Making a sessions to teaching the participates These concepts .

- The Session will be weekly and the day will be determined when meeting with the team .

Finally this program we will help ourselves to doing it

ونسأل الله عز وجل التوفيق والسداد