ANCC SHIVALIK 2023

WEEK-2

From: 28-Oct-23 Saturday. To: 03-Nov-23 Friday.

Introduction

As the per the poll, majority need more time to complete the task of week-1, so we are going to use this week as well to cover the content but with some small additions to it.

What are we going to learn this week

- 1. Complete the tasks of week-1
- 2. Time complexity
- 3. Binary search

What and from where to do this things

- 1. Follow the week-1 PDF for the week-1 tasks
- 2. Time complexity
 - 1. Implement aⁿ
 - 1. Using loops
 - 2. Using fast power algorithm
 - 1. cp-algo Binary Exponentiation
 - 3. See the difference in speed of evaluation using large values of n.
 - 1. Note: value may go out of bound for now only care about the speed and not the ans.
 - 2. Implement finding nth Fibonacci number
 - 1. Using recursion
 - 2. Using loop
 - 3. Using the matrices as discussed in the orientation
 - 1. cp-algo Fibonacci Matrix From
 - 4. See the difference in speed of evaluation by incrementing n.
 - 3. Hand book page 17-21 total reading.
- 3. Binary Search
 - 1. Hand book page 31-34 complete