Assignment − 5

Find the nth Fibonacci number using

- Brute force

- Top down DP

- Bottom up DP

- Bottom up DP with constant space complexity

Given an array of size n of distinct elements. Find the kth (user input) smallest number using

- Linear time approach with group size 3

- Linear time approach with group size 5

- Linear time approach with group size 7

and obtain the number of comparisons in this process. Also count the number of comparisons while sorting a group of 3/5/7 elements.