Assignment 4 Questions:

1. Write a java code to generate 1 lakh random integer numbers between 1 and 1 lakh.

   a) Collect it to an array.

   b) Pick a number in the far end of the array

   c) search that number and observe the time taken (in seconds)

   (you can increase the total numbers to 10 lakh also)

2. Write a java code to generate 1 lakh random integer numbers between 1 and 1 lakh.

   a) Collect it to a single linked list.

   b) Pick a number in the far end of the list (traverse the list)

   c) search that number and observe the time taken (in seconds)

   (you can increase the total numbers to 10 lakh also)

3. Write a java code to generate 1 lakh random integer numbers between 1 and 1 lakh.

   a) Collect it to an array.

   b) Pick 3 number in the far end of the array and create a sub-array

   c) search the sub-array and observe the time taken (in seconds)

   (you can increase the total numbers to 10 lakh also)

4. Write java code to find the possible substrings (size of substring is atleast 2) from the given sequences

   a) ATGCT   b) AGCT

   a) CCGTCG   b) CCGCG

Mention machine specifications like OS, RAM, GPU

Date to submit: 03-06-2022