Assignment Questions

MULTITHREADING
(Q.1,2,3 & 9 are from previous fork assignment questions which are to be implemented in multithreaded fashion)

1. Generate Armstrong number generation within a range.

2. Ascending Order sort and Descending order sort.

3. Implement a multithreaded version of binary search. By default, you can implement a search for the first occurrence and later extend to support multiple occurrence (duplicated elements search as well)

4.Generation of Prime Numbers upto a limit supplied as Command Line Parameter.

5. Computation of Mean, Median, Mode for an array of integers.

6. Implement Merge Sort and Quick Sort in a multithreaded fashion.

7. Estimation of PI Value using Monte carlo simulation technique (refer the internet for the method..) using threads.

Optional:
8. Computation of a Matrix Inverse using Determinant, Cofactor threads, etc.

9. Read upon efficient ways of parallelizing the generation of Fibonacci series and apply the logic in a multithreaded fashion to contribute a faster version of fib series generation.

10. Longest common subsequence generation problem using threads.