

CMSC 125 LABORATORY ACTIVITY

(ACTIVITY LAB1)

LAB1 - Threaded Prime

Create a threaded application, where, given a number *maxNumber*, and given a number of threads *numberOfThreads*, the application would distribute the retrieval of prime numbers from zero up to *maxNumber* to the number of threads provided. The program would then list all prime numbers in groups of ten, in sorted order.

Example:

Input:

maxNumber = 100; numberOfThreads = 4

The numbers to check would then be divided into the four threads:

Thread 1: 0 - 25 exclusive

Thread 2: 25 - 50 exclusive

Thread 3: 50 - 75 exclusive

Thread 4: 75 - 100 exclusive

Output:

2, 3, 5, 7, 11, 13, 17, 19, 23, 29,
31, 37, 41, 43, 47, 53, 59, 61, 67, 71,
73, 79, 83, 89, 97,

CODE SUBMISSION

1. Push your code directly in the main branch of your GitHub repository

DEADLINE

Saturday, March 16, 2023 at 08:00 AM