CS3430 Assignment 7

5 Points

Write a blocking server that sets a server socket on the local computer on any port between the range 20001-22001 and goes into an infinite loop that accepts client connections, gets the address of each connecting client and sends all prime numbers up to a specified integer 'n' to each client.

Write a client that connects to this server and sends it an integer 'n' and gets back a list of all prime numbers up to 'n'.

NOTE: You may use any algorithm to calculate the list of all prime numbers up to a specified integer 'n'.

An efficient way to generate prime numbers is using <u>Sieve of Eratosthenes</u>.

Sample output:

Input to the server: 30

Response from the server: 2 3 5 7 11 13 17 19 23 29

For simplicity you may send and receive data as strings. Refer to lecture 11 for a simple client-server code.

Submit your .py files after zipping them up as firstname_lastname_HW7.zip