CSC 016 – Class Assignment - Sieve of Eratosthenes

1. Implement the Sieve of Eratosthenes algorithm that finds prime numbers between 2 and N
    a. Implement the algorithm in C++
    b. Write a driver program that asks the user for N and prints all the prime numbers between 2 and N
    c. Use dynamic arrays (Array size should be determined at run time. Use new to allocate an array and delete to free it)
    d. Use separate files for your C++ declarations, C++ definitions and driver program as we learned in class (sieve.h, sieve.cpp, main.cpp)
    e. Bonus: Allow the user to ask for prime numbers between M and N and print only the prime numbers in that range

    ### Algorithm description
    https://en.wikipedia.org/wiki/Sieve_of_Eratosthenes

Submission instructions

1. Document your code thoroughly inside the source file/s using C++ style comments ('//' and/or '/**/')
2. Zip and upload the following files to blackboard:
    a. Source files/s
    b. Instructions on how to run your code (can be in text/doc/pdf file format)
    c. Program output examples (at least two run examples)

Hints

1. Always concentrate on the first error. Fix that first and recompile!
2. Remember when it comes to errors: "google is your friend"