CPSC 410

Project 3

Motivation: Topics covered by this project;
- Mutexes, Threads
- Chapter 5 in Stallings

Overview
std::cout is not threadsafe, if you try to send output to it from many different threads the output can get garbled. Especially if you do something like this;
        std::cout<<data1<<data2<<data3<<data4<<std::endl;
Your task, gentle reader, is to remedy this situation and produce a tool that will ease the considerable burden of developing and debugging your upcoming project 4.

What I've given you:
tester.h
print_ts.h

I will use my own main.cpp that calls functions in tester.cpp and/or print_ts.cpp

Requirements:
Please provide me with the following 2 files (**please note the case**)
tester.cpp
print_ts.cpp

And an answer to the questions below in the file answers.txt
1. How do you determine the number of threads you should launch to realistically test your application?
2. If you are launching several threads, under what circumstances would these threads not run in parallel on a modern processor?

Sample usage
std::string s1="some";
std::string s2="data";
PRINT2(s1,s2);

Teams
Individual effort. No teams for this project please.

Grading

10% project files submitted correctly
20% questions correct
30% tester.cpp works correctly
40% print_ts.cpp works correctly

This assignment is relatively easy so it is weighted 1.0 times the weight of project 1