CS 433 Lab – June Phillips

Code:

A screenshot of a computer program

Description automatically generated

QUESTION 1: Which section is the critical section?

The following lines are the critical section:

Line 27: x++;

Line 38: y--;

QUESTION 2: What should be the correct value of the shared variable in the program and why?

The correct value of the shared variable is 1. Y would decrease to 0 and then x would increment back to 1. Thread 1 and Thread 2 aren’t synchronized so that’s why this occurs.

QUESTION 3: What is the line by line output of the program?

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