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# Assignment: Concurrency Bugs

Work alone or with a partner. If you work with a partner, then indicate their name below AND make sure that your partner also submits this form so that they get credit.

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\* Required

Your Name \*

Hermann Yepdjio

Partner's Name (if you worked with a partner)

N.A

When you worked on the "Multi-threaded Hello World" assignment, did you encounter (or create) any concurrency bugs? If so, then describe what type of concurrency bug(s) you encountered. Use the terminology from the reading/lecture, i.e., "Data Race", "Deadlock", "Order Violation", etc. \*

Yes I have encountered a Data Race concurrency bug



In the "Synchronized Sum" assignment you started with a faulty program called sum.c. What type of Concurrency bug did this program have? \*

- ☐ Livelock
- ☐ Deadlock
- ☐ Starvation
- ☒ Data Race
- ☐ Atomicity Violation
- ☐ Order Violation
- ☐ Excessive Waiting

You then created a correct but inefficient version of sum.c that had poor performance due to locking within an inner loop. What type of Concurrency bug did this program have? \*

- ☐ Livelock
- ☐ Deadlock
- ☐ Starvation
- ☐ Data Race
- ☐ Atomicity Violation
- ☐ Order Violation
- ☒ Excessive Waiting



When you worked on the "Ping Pong" assignment, what type of Concurrency bug did the original pingpong.c program have? \*

- ☐ Livelock
- ☐ Deadlock
- ☐ Starvation
- ☐ Data Race
- ☐ Atomicity Violation
- ☒ Order Violation
- ☐ Excessive Waiting

Study, build and run the provided bug4.c program. What type of Concurrency bug does this program have? \*

- ☐ Livelock
- ☒ Deadlock
- ☐ Starvation
- ☐ Data Race
- ☐ Atomicity Violation
- ☐ Order Violation
- ☐ Excessive Waiting



Fix the bug4.c program so that it runs correctly. \*



I fixed the bug4 program. it is now running correctly every time.



I ran the fixed program with an input of 5000000 and verified that the output concurs with the expected output shown in the source code comments

Upload your bug4\_fix.c source code. \*



bug4\_fix.c



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