

Project Writeup

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1 Project Summary

Write a pair of programs, a dispatcher and a listener, to act as a communication relay. The program dispatcher passively accepts text from standard input, exiting normally on EOF. The program listener will print out any text that was sent to a running instance of dispatcher. When dispatcher exits, so too does listener.

2 Challenges

Working across multiple threads that had their own threads was a new challenge for sure. I learned quite a bit about to manage synchronization between threads, and polling. Without the instructors assistance this would have been a much more difficult task. I am glad to have had the exposure as I am sure these topics will come up again.

3 Successes

Ultimately, the program was able to run as expected. With much trial and error, we were able to produce a working product that met most of the requirements. We also did well with team members dealing with other issues mid project and we were able to adjust accordingly.

4 Lessons Learned

Again, design was a big part of this project. We had to make sure that we were able to handle all of the edge cases. If I could start over, I would have spent more time on the design and less time on the implementation. Specifically, I would have tried to tie the destruction of a given thread to the destruction of the thread that spawned it. This would have made the code much more readable and easier to understand, while being much more manageable.