

Explain what happens when you run the threadSync.c program?

When I run the threadSync.c program provided to us, I notice a few things. Basically, there are two separate threads; one that enters in critical condition, and one that returns the thread once it finishes. Both threads work right after one another to make multiple threads be produced at pretty much the same time, with some slight time which is shown as each thread displays a couple by a couple.

Step 2:

For step 2 of this lab, we were provided with a few sections of code. Ultimately, we were asked to implement the process of two threads working at the same time using the producer-consumer idea to produce the alphabet. I decided to set my buffer to one, simply because I wanted each letter to enter the producer thread, (get entered into the buffer) and then it would go directly into the consumer thread, (where it is removed and the buffer is empty). By doing this, the buffer size is consistently 1, and each letter enters and gets removed right away to leave space for the next letter, until the alphabet is completed. I used the put() and get() functions from the textbook in order to ensure that the buffer was working with one in and one out, and these functions were called in the producer and consumer functions, respectively. This was how I understood to complete this Lab's task.