Introduction

The purpose of this assignment is to gain some familiarity with using pthreads, and to implement a message passing mechanism between threads.

You should create a process with two threads - one thread will be the sender and the other thread will be the receiver. The message should consist of a character string, passed as a pointer to the receiving thread. This string should be input via the sending thread, placed in a buffer that is accessible to both threads, and then retrieved by the receiving thread and printed. The sending and receiving processes should protect the buffer operations with semaphores, to provide the necessary synchronization to avoid any race conditions.

Submit your code via cscheckin.