E01

The main thread initializes four semaphores and creates two threads. After this operation, it enters a while loop in which it waits on a semaphore called sem_read that the data has been produces by a client thread. Once the value has been multiplied by 3, it notifies the client thread through a sem_post on the semaphore sem_ready.

The client threads open the respective files and use a semaphore called sem_write to synchronize between themselves when overwriting the global variable.

Another semaphore called sem_count is used to increment the value of a global variable c which counts the number of threads that have finished their work.