

CSE 344 HOMEWORK 3

REPORT FILE

In this homework, the process start with initializing the semaphore and shared memory. If these are not created yet, the process creates and defines the size for both, and gives its initial value to semaphores.

Each process waits for equalizing the total number of processes to the total number of pipes. If the process is the last one to be created, It sends junk data to the all the other created processes through pipe to go on.

Each process writes and reads in a loop continuously. If the process starts with a potato, then it starts with writing, unless it starts with reading. A reader marks to inform that it is waiting for a writer to write its info on itself, and increases semaphore by one. A writer decreases the semaphore by one, then writes its info to an available writer by checking the marks of the other processes from the shared memory and unmarks the mark of the reader.

When the last potato has cooled down, the process checks for it and marks as end reached not to any other process to repeat the conclusion steps. Then the process inform all the others to close themselves, and releases all the resources, and then terminates.