

IPC – Shared Memory

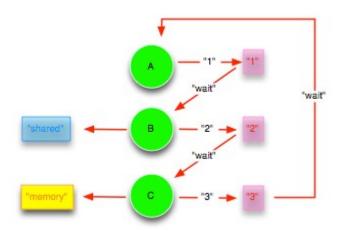
Instructor: Muhammad Ahsan

Lab Task

Write a program where processes synchronize such that a process A prints out the strings of two other separate writing processes (B first and then C second) from shared memory. process A needs to 'wait' by polling until B and C finish writing their strings to memory.

Here is the sequence of events that needs to be implemented:

- 1. Process **A** writes to position **1** in memory and then waits until **B** and **C** completes
- 2. Process **B** writes the string "shared" into memory then signals **A** & **C** that it is complete by writing into memory position **1** (note process **B** should wait to write into position 1 until after process **A** writes into position 1 in memory)
- 3. Process **C** writes the string "memory" into memory and then signals to process **A** that it is complete by writing into memory position 1 (note process **C** should wait until process **B** writes into position 1 in memory).



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