

## OS Report

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### Q2

- 1) The difference is that in CMA we don't copy the data; instead all processes read from a single copy of it. While in other methods we should often have multiple copies of data.
- 2)
  - a) The read end of a pipe reads any way. It does not matter which process is connected to the write end of the pipe. Therefore, this is very insecure mode of communication.
  - b) Some plumbing (closing of ends) is required to create a properly directed pipe.

3) Yes. It is possible. It should be declared in the attributes for that lock. Look at the code below:

- a) `pthread_mutex_t * pmutex = NULL;`
- b) `pthread_mutexattr_t attrmutex;`
- c) `pthread_mutexattr_init(&attrmutex);`
- d) `pthread_mutexattr_setpshared(&attrmutex,`  
`PTHREAD_PROCESS_SHARED);`
- e) `pthread_mutex_init(pmutex, &attrmutex);`