

1. a) No. Trap instruction occurs at user level, and it is responsible for moving process from user mode to kernel mode.
- b) Question is omitted. It is not covered in class
- c) No. If the type of access is read for both threads then there will be no concurrency error
- d) No. Limited direct execution means running a process in CPU but with limited permission, and it can be thought as baby proofing CPU, so bad code won't harm the system.
- e) No. Indexed based system uses block pointers in inode, and block pointer can be pointing data blocks in the data region.
- f) No. Extent-based file system requires only extent + length to get to a particular byte in file, and this differs from indexed-based system which uses many indirect pointers in between (which adds disk access).