

Course thread:

This thread searches for a ta, then if ta is found broadcasts to any student thread that is waiting for ta to be assigned by a cond_var.

Another cond var is used for completion of tutorial.

I locked each lab, so only one course can take a lab at a time.

Student thread:

This searches if current course has a ta available and waits till a cond_var is set.

If it could not enter due to lack of slots it waits with the same cond var once again to loop.

Threads attending tut get a signal at end of tut.