

CS -210 ASSIGNMENT FOR CONCURRENCY

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Documentation:

- What measures have been taken to protect against race conditions.

The measures that I took to protect against race conditions is the Synchronization for competence access of multiple threads to any Shared resource and I used synchronization especially the keyword Synchronized for access each time one thread only to the shared resource at time. In lines 110, and in line 262 I used the keyword synchronized.

- What measures have been taken to avoid deadlock.

The measures that I took to avoid deadlock is the synchronization blocks, for synchronized objects and can only have one thread accomplishing inside them at the same time. The other threads that tries to enter the block are blocked until the thread that is in block exits the block. In other words it locked the object until the thread that is in the block exits the synchronized block. I used synchronization blocks In transfer method and convert method at lines 208, 217 for transfer method and in line 334 for convert method.