

## thread





## Like two trains which need to share a single track A race to the critical section. Unpredictable results if both are in the critical section at the same time Changing shared variables creates a critical section

## thread



## mutex

- Use when modifying shared variables
- Limit the use or threads will be waiting doing nothing
- Deadlock is circular waiting that can't be resolved (I'm waiting on your lock and you are waiting on my lock)