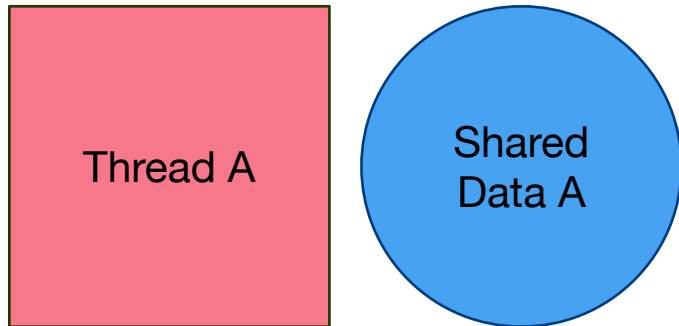Thread A takes a lock
on Shared Data A

Thread B takes a lock
on Shared Data B

Thread A

Shared
Data A

Shared
Data B

Thread B