

README Q1:

The dining philosopher problem here utilizes the use of semaphores, which restrict the usage of forks, only when available. We use the `sem_wait` to acquire the resource and then the `sem_post` to release it once we are done using it.

We create threads for all the 5 philosophers and then use the semaphore variable to manage the access of bowls and resources, or without semaphores, using the concept of mutex locks.

Part 2 of the question adds another bowl as a resource and then we use