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Task - 07

Dining Philosophers Problem and Deadlock

Summary:

The Dining Pholosophers problem is a concurrency issue that illustrates the challenge of resource sharing. Five philosophers alternate between eating and thinking, ~~and~~ needing two chopsticks to eat. The problem is how to allocate these limited resources (chopsticks) without causing a deadlock, which no philosopher can achieve. It explores concepts such as synchronization, deadlock avoidance and resource allocation. Various solutions focus on ordering or limiting access to prevent conflicts.