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Task 7

The "Dining Philosophers Problem" is a classic synchronization issue in computer science, illustrating the challenges of ~~resource~~ resource sharing. It involves philosophers seated around a table with limited forks. Each philosopher needs two forks to eat but can only pick fork at a time, leading to potential deadlock or starvation. Various solutions are proposed to manage concurrent access like using resource hierarchy, introducing waiter etc to ensure both safety and fairness in resource allocation.

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CSE 707
28.02.2024
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