Lecture 11

Wednesday, July 28, 2021

Dining Philosophers

Semaphores → bucket of balls

Mutexes → lock
wait() 
- if already in bucket
  - take a ball, immediately move on
- if no balls in bucket
  - wait until ball becomes available, take ball, move on

signal() 
- adding ball to bucket
- never blocking
- automatically wakes up all threads on wait()
Dining Philosophers (or Semaphores)
Producers - Consumer

- W overwrites bytes that R hasn't read \(\rightarrow\) empty bytes
- R reading garbage bytes \(\rightarrow\) fill bytes