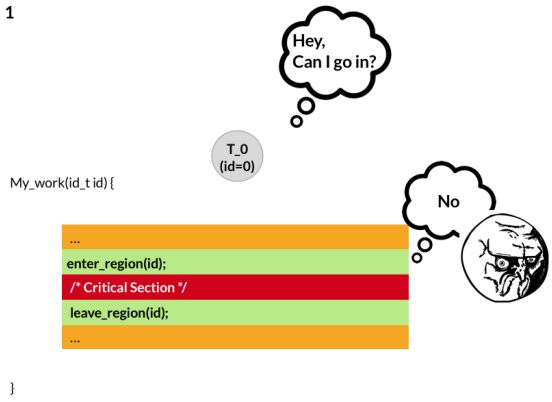
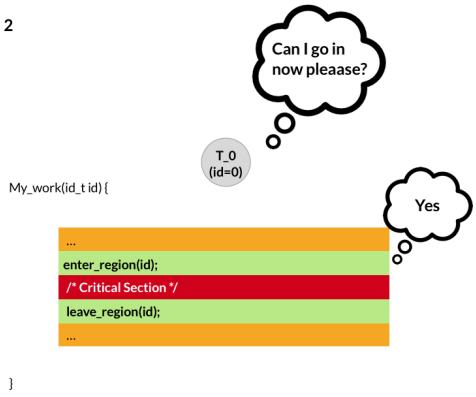
Vocabularies

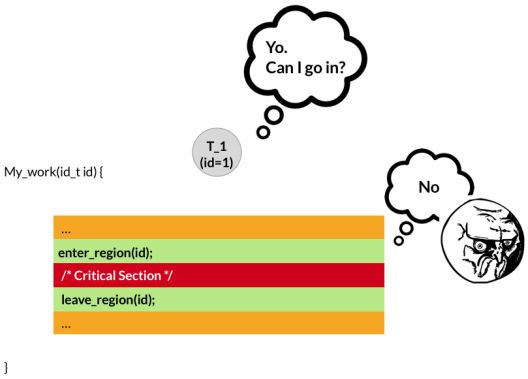
- **Peterson's Algorithm**
  - is a concurrent programming algorithm for mutual exclusion that allows two or more processes to share a single-use resource without conflict, using only shared memory for communication



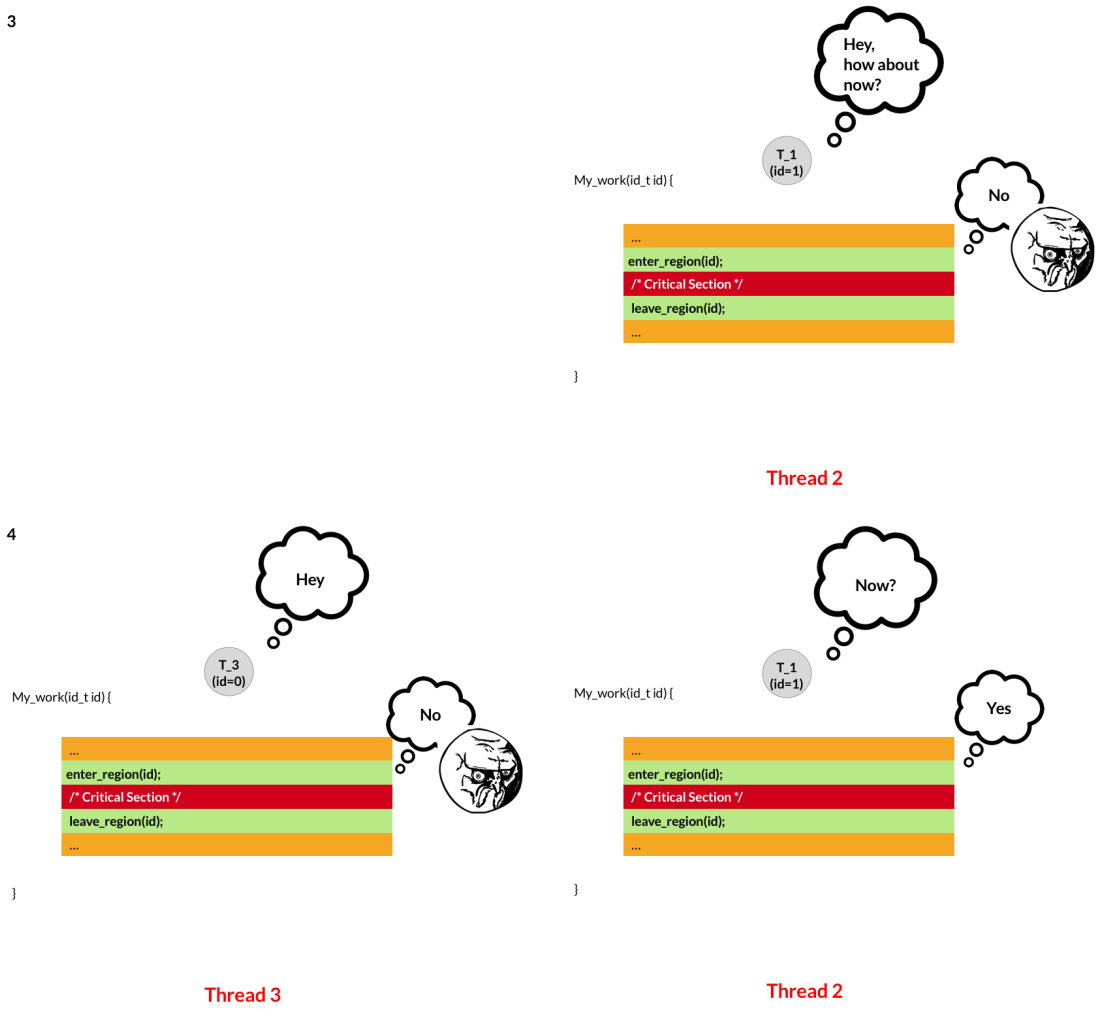
Thread 1



Thread 1



Thread 2



- **Lamport's Bakery Algorithm**
- **Synchronization**
- **Disable Interrupts**
- **Spin Lock**
- **Priority Inversion**
- **Sleep Lock**
- **Condition variables**
  - Is an explicit queue that threads can put themselves on when some state of execution (i.e., some condition) is not as desired (by waiting on the condition); some other thread, when it changes said state, can then wake one (or more)

of those waiting threads and thus allow them to continue (by signaling on the condition)

- **Signal**
  - Signals are a limited form of inter-process communication between threads
- **Semaphores**
  - is a variable or abstract data type used to control access to a common resource by multiple processes in a concurrent system such as a multitasking operating system.
- **Monitors**
- **Broadcast**

1.