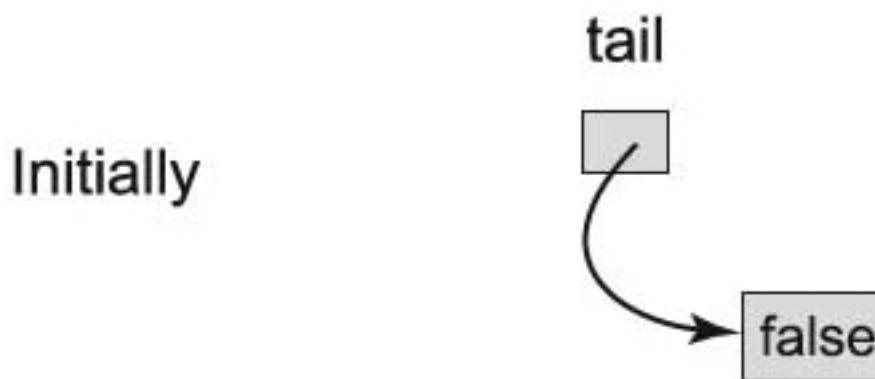


(a)



Initially

FIGURE 7.10A CLHLock class: lock acquisition and release. Initially the `tail` field refers to a QNode whose `locked` field is *false*. Thread A then applies `getAndSet()` to the `tail` field to insert its QNode at the tail of the queue, simultaneously acquiring a reference to its predecessor's QNode. Next, B does the same to insert its QNode at the tail of the queue. A then releases the lock by setting its node's `locked` field to *false*. It then recycles the QNode referenced by `pred` for future lock accesses.