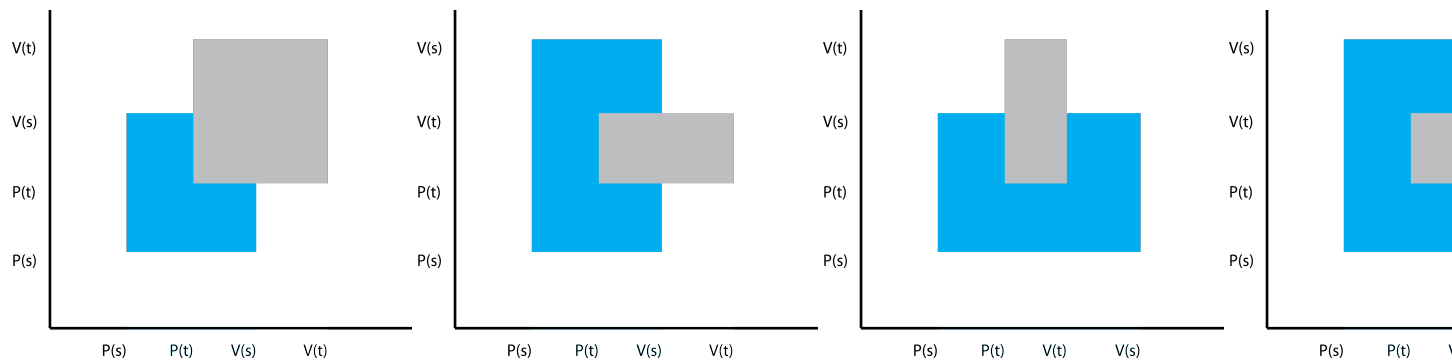


## Problem Set 14

## 12.25

Reentrant and threadsafe. The only possibly-troublesome variables are `mutex` (handled properly) and `once` (also handled properly). Everything else is locked down by the mutex.

## 12.28



## 12.29

No it cannot. Thread 1 occurs entirely sequentially with the one exception of `a`, which encapsulates everything. Since thread 2 doesn't use `a`, so deadlock is not possible there. In thread 2, `b` is nested in `a`, but in thread 1, there is no other nesting, so it impossible for both threads to just wait for the other to release the lock.