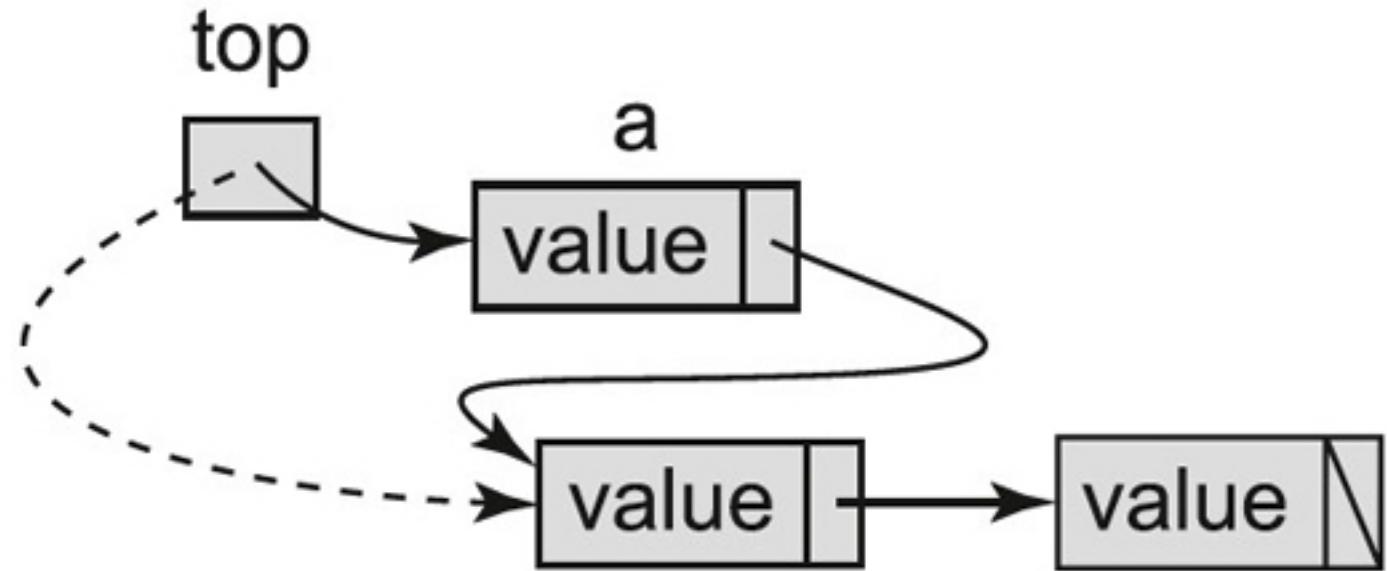


(a)

A:push()



**FIGURE 11.1A** A lock-free stack. In part (a), a thread pushes value  $a$  onto the stack by applying a `compareAndSet()` to the `top` field. In part (b), a thread pops value  $a$  from the stack by applying a `compareAndSet()` to the `top` field.