

(b)

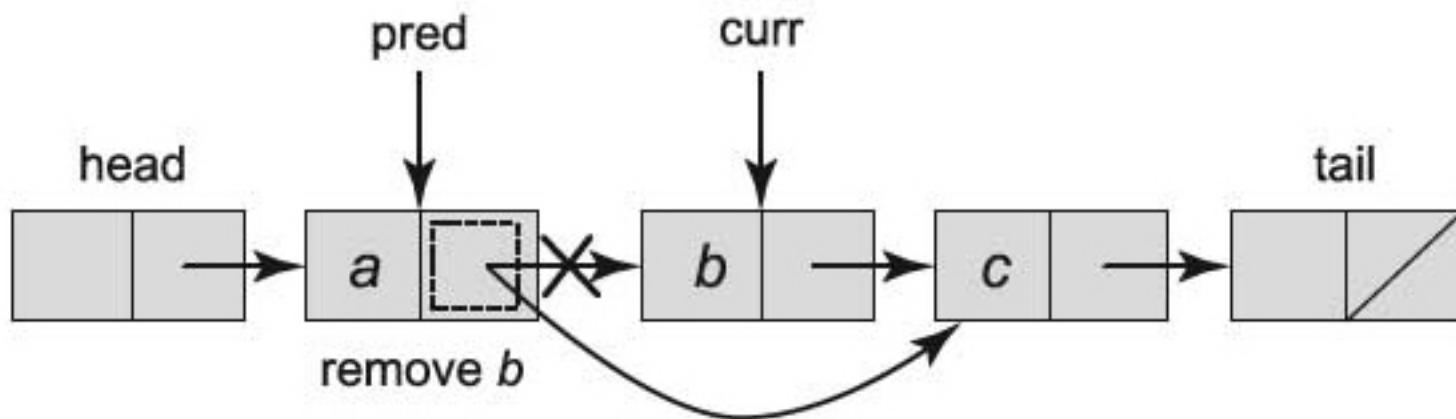


FIGURE 9.3B A sequential Set $\langle\rangle$ implementation: adding and removing nodes. In part (a), a thread adding a node b uses two variables: curr is the current node, and pred is its predecessor. The thread moves down the list comparing the keys for curr and b . If a match is found, the item is already present, so it returns false. If curr reaches a node with a higher key, the item is not in the set, so it sets b 's next field to curr, and pred's next field to b . In part (b), to delete curr, the thread sets pred's next field to curr's next field.