



**FIGURE 10.14** Why dequeuers must help advance tail in line 45 of Fig. 10.12. Consider the scenario in which a thread enqueueing node *b* has redirected *a*'s next field to *b*, but has yet to redirect tail from *a* to *b*. If another thread starts dequeuing, it will read *b*'s value and redirect head from *a* to *b*, effectively removing node *a* while tail still refers to it. To avoid this problem, the dequeuing thread must help advance tail from *a* to *b* before redirecting head.