



Chapter 16

Stacks and Queues

Data Structures & Problem Solving
Using JAVA
Second Edition

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Figure 16.1

How the stack routines work: (a) empty stack; (b) push(a); (c) push(b); and (d) pop()

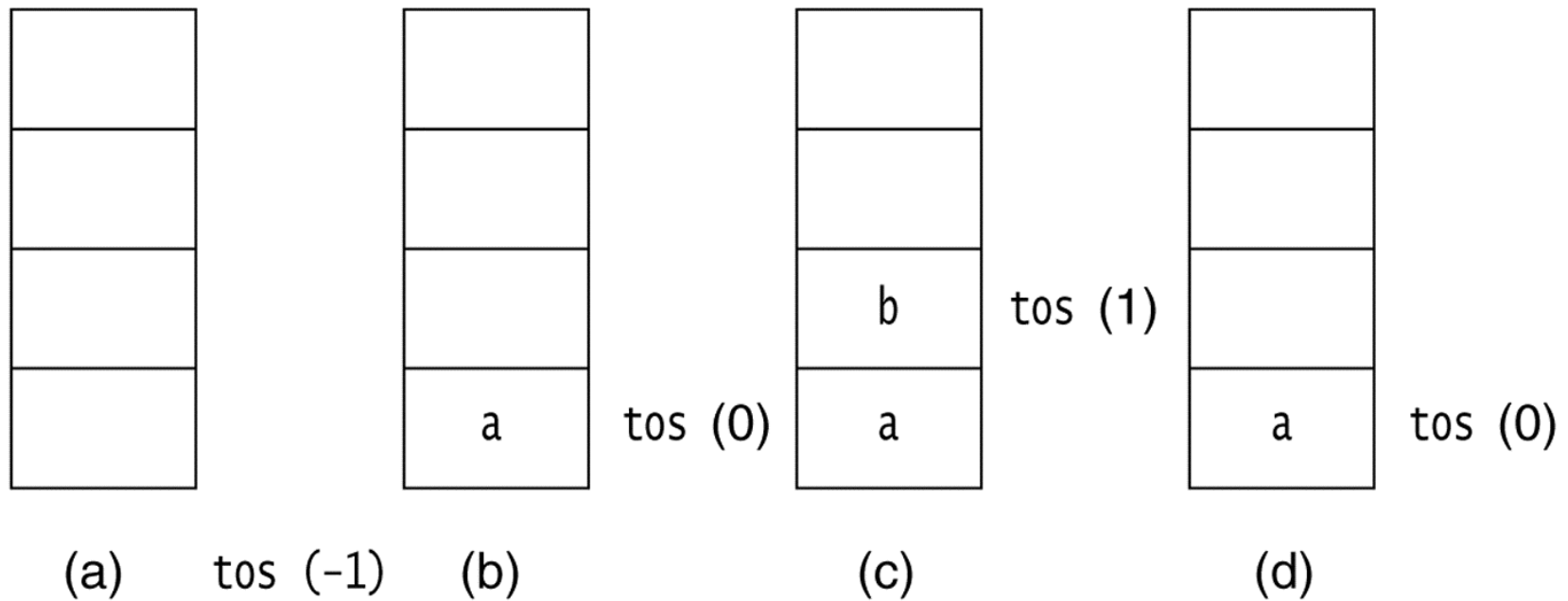


Figure 16.8

Basic array implementation of the queue

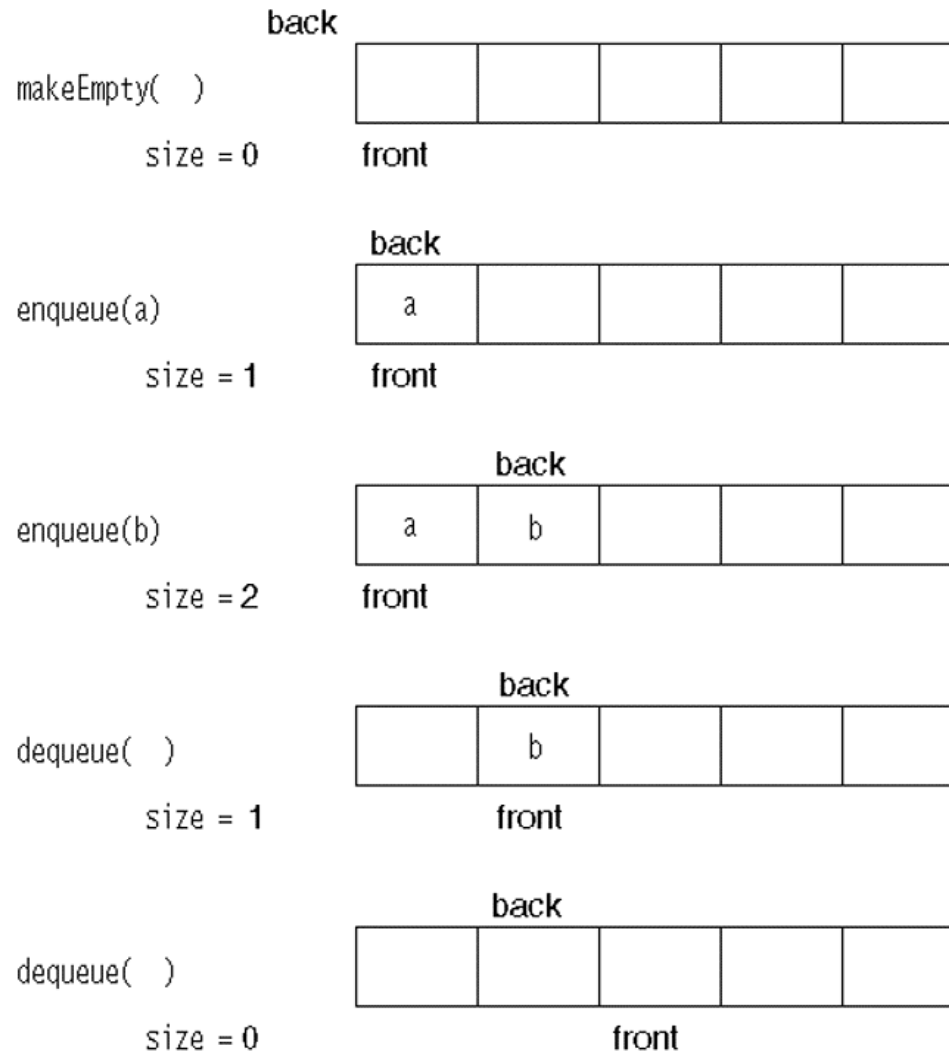


Figure 16.9

Array implementation of the queue with wraparound

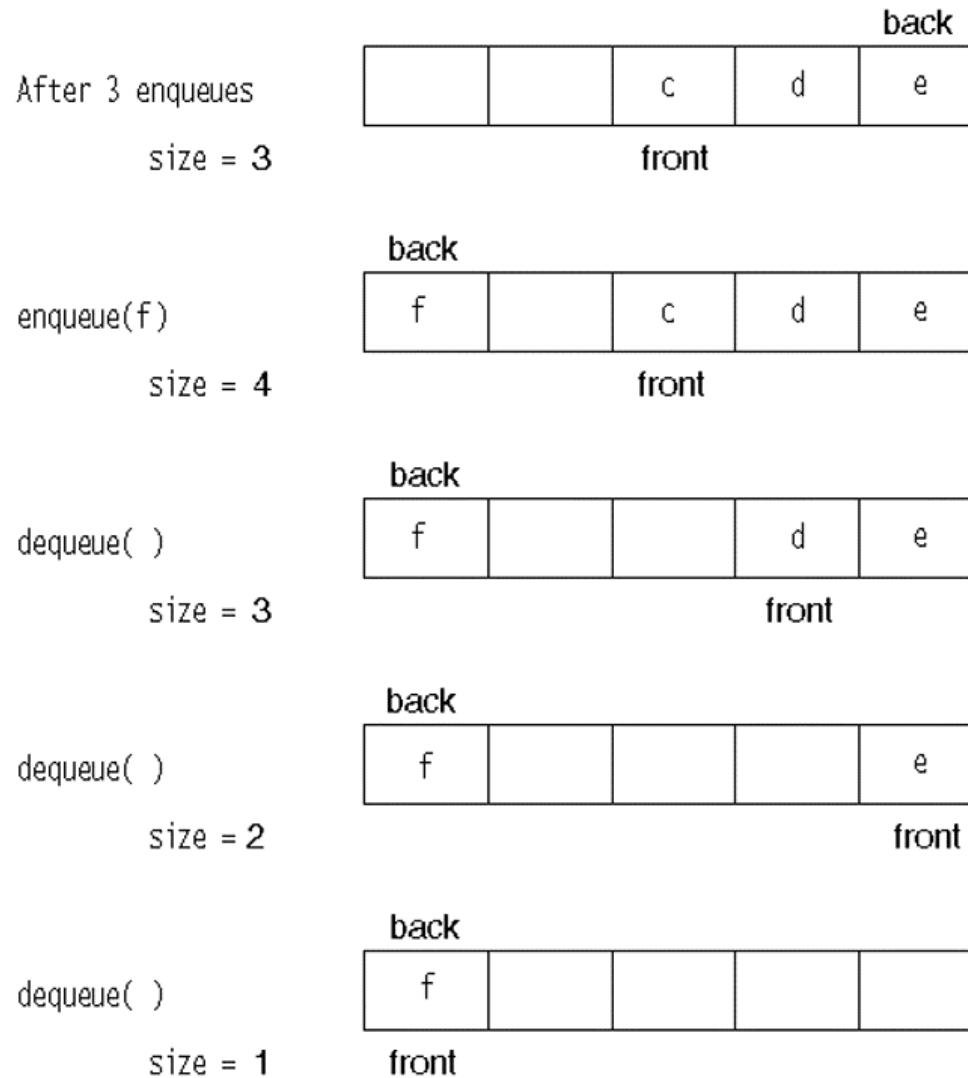


Figure 16.18

Linked list implementation of the Stack class

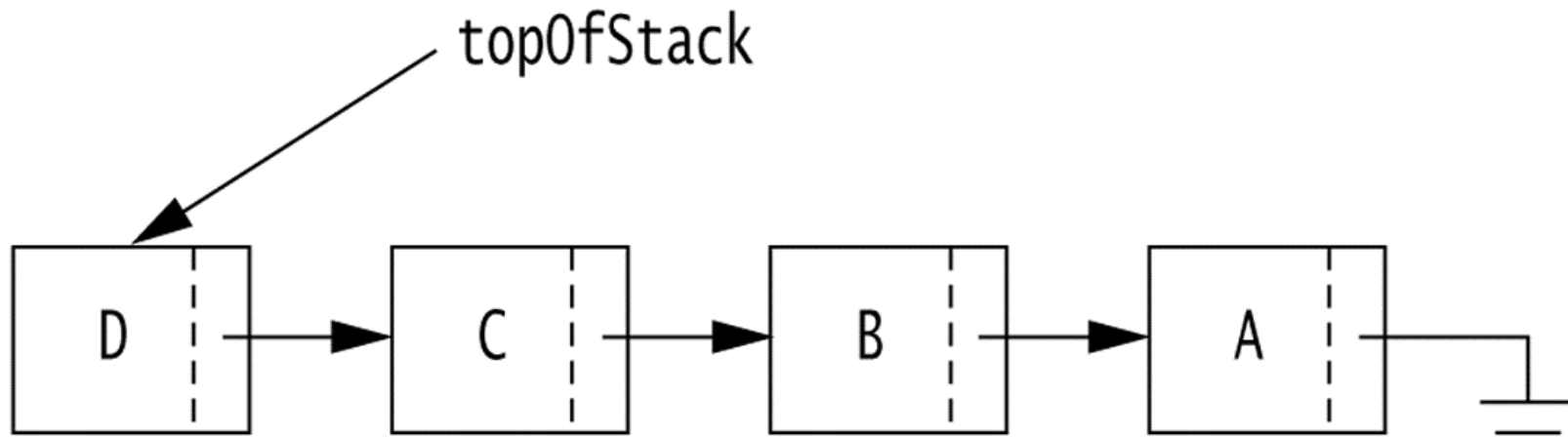


Figure 16.22

Skeleton for the linked list–based queue class

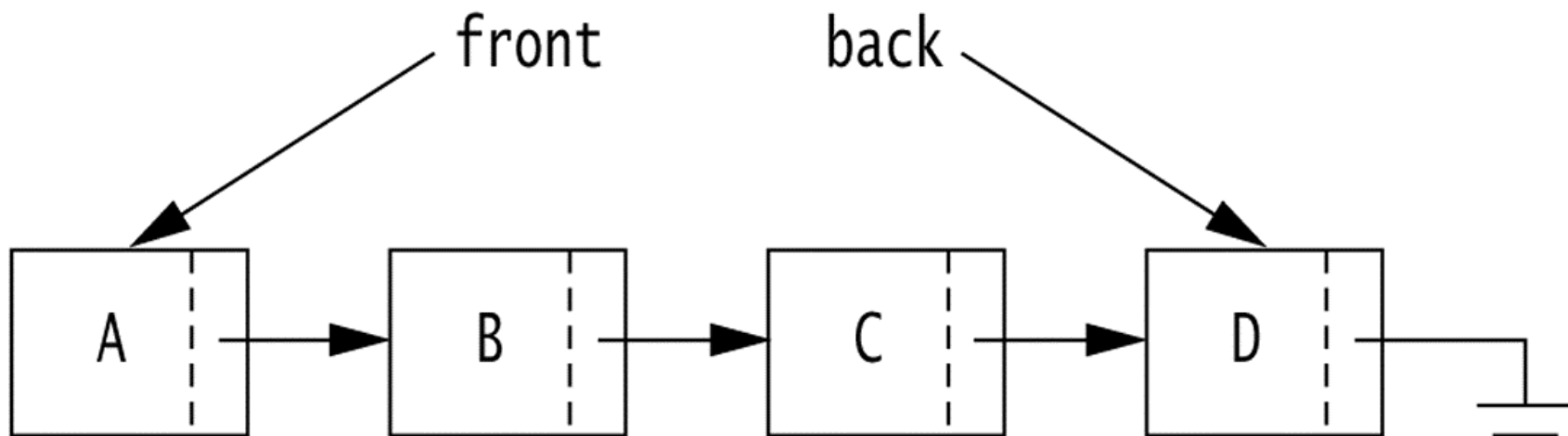
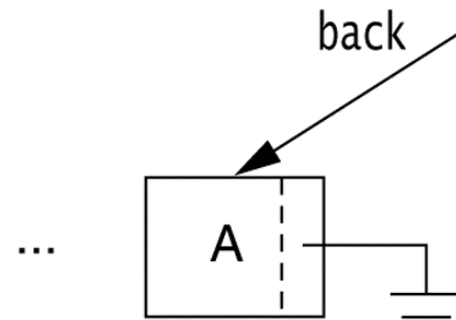
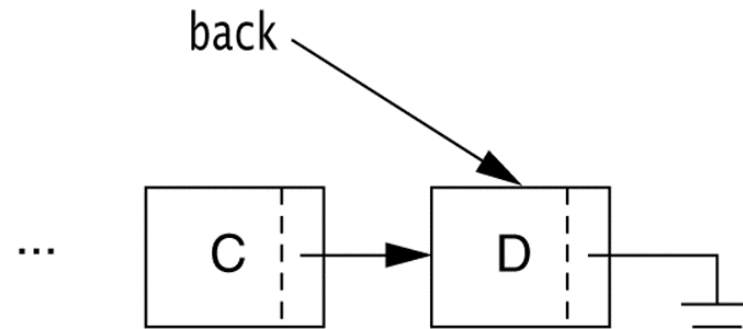


Figure 16.26

The enqueue operation for the linked list-based implementation



(a) Before



(b) After