

```
module BoundedBuffer
    op deposit(typeT), fetch(result typeT);
body
process Buffer {
    typeT buf[n];
    int front = 0, rear = 0, count = 0;
    while (true)
        in deposit(item) and count < n ->
            buf[rear] = item;
            rear = (rear+1) mod n; count = count+1;
        [] fetch(item) and count > 0 ->
            item = buf[front];
            front = (front+1) mod n; count = count-1;
    ni
}
end BoundedBuffer
```

Figure 8.5 Rendezvous implementation of a bounded buffer.

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