

```

monitor Shortest_Job_Next {
    bool free = true;  ## Invariant SJN: see text
    cond turn;        # signaled when resource available

    procedure request(int time) {
        if (free)
            free = false;
        else
            wait(turn, time);
    }

    procedure release() {
        if (empty(turn))
            free = true
        else
            signal(turn);
    }
}

```

Figure 5.6 Shortest-job-next allocation with monitors.