

skiladæmi 5 - Þorvaldur Tumi Baldursson

5.

```
scheduler() {  
    if (called by timer interrupt) {  
        /* Time slice of current process expired */  
        addToTail(running, ready);  
    }  
  
    else if (called by I/O system call) {  
        /* I/O request by current process*/  
        addToTail(running, waiting);  
    }  
  
    else if (called by I/O interrupt) {  
        /* I/O of process ioCompleted completed*/  
        if (running != null) { addToTail(running, waiting); }  
        temp_completed = findAndRemove(ioCompleted, waiting);  
        addToTail(temp_completed, ready)  
    }  
  
    // Further code outside if statements (if required)  
    interruptOn()  
    if (ready == null) {  
        sleep()  
    } else {  
        running = removeFromHead(ready);  
        switchTo(running)  
    }  
}
```