Heimadæmi – heimadæmi 5

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```
1   public class scheduler {
2       public void emulatedScheduler(){
3
4           // Time slice of current process expired
5           if (called by timer interrupt) {
6               pcb = running;
7               addToTail(pcb, ready);
8               running = removeFromHead(ready);
9               interruptsOn();
10              switchTo(running);
11          }
12          // I/O request by current process
13          else if (called by I/O system call) {
14              pbc = running;
15              addToTail(pcb, waiting);
16              running = removeFromHead(ready);
17              if (running == null){
18                  sleep()
19              }
20              else{
21                  interruptsOn();
22                  switchTo(running);
23              }
24          }
25          // I/O of process ioCompleted completed
26          else if (called by I/O interrupt) {
27              pcb = findAndRemove(isCompleted);
28              addToTail(pcb, ready);
29              pcb = running;
30              interruptsOn();
31              switchTo(running);
32          }
33          // Further code outside if statements (if required)
34      }
```