```
1: function schedule()
        int\_off();

▷ to disable interrupts

 2.
        updateStatus(taskList);
 3:
        timer = timer + 1;
 4:
        p = taskList;
 5:
        while p do
 6:
            if p \rightarrow status == INTERRUPT then
 7:
                return:
 8:
            else if p \rightarrow status == READY then
 9:
                p \rightarrow status = RUNNING;
10:
                int\_on();

    b to enable interrupts

11:

    to execute the task

12:
                p \rightarrow function();
                int\_off();
13:
                p \rightarrow status = DORMANT:
14:
            end if
15:
            p = p \rightarrow next;
16:
        end while
17:
18: end function
19: function updateStatus(p)
        while p do
20:
            if p \rightarrow status == RUNNING then
21:
                p \rightarrow status = INTERRUPT;
22:
            end if
23:
            if timer \% (p \rightarrow period) == 0 then \triangleright task should be initiated
24:
                if p \to status == DORMANT then \triangleright previous job finishes
25:
                    p \rightarrow status = READY:
26:
                                                     \triangleright READY or INTERRUPT
                else
27:
                    reportTaskError(p);

    task misses its deadline

28:
                end if
29:
            end if
30:
31:
            p = p \rightarrow next;
        end while
32:
33: end function
```