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1: function schedule()
2:   int_off();                                ▷ to disable interrupts
3:   updateStatus(taskList);
4:   timer = timer + 1;
5:   p = taskList;
6:   while p do
7:     if p → status == INTERRUPT then
8:       return ;
9:     else if p → status == READY then
10:      p → status = RUNNING;
11:      int_on();                                ▷ to enable interrupts
12:      p → function();                          ▷ to execute the task
13:      int_off();
14:      p → status = DORMANT;
15:    end if
16:    p = p → next;
17:  end while
18: end function
19: function updateStatus(p)
20:   while p do
21:     if p → status == RUNNING then
22:       p → status = INTERRUPT;
23:     end if
24:     if timer % (p → period) == 0 then    ▷ task should be initiated
25:       if p → status == DORMANT then    ▷ previous job finishes
26:         p → status = READY;
27:       else                                ▷ READY or INTERRUPT
28:         reportTaskError(p);              ▷ task misses its deadline
29:       end if
30:     end if
31:     p = p → next;
32:   end while
33: end function

```