

```

Result: schedule a task to run
1 ENTRANCE: call taskRun(struct TASK *task, int level, int priority);
2 Procedure taskRun(struct TASK *task, int level, int priority)
3   if level < 0 then
4     |   don't change level, level ← task->level;
5   else
6     |   nothing to do here;
7   end
8   if priority > 0 then
9     |   Change the priority, task->priority ← priority;
10  else
11    |   nothing to do here;
12  end
13  if the task is running and not at the level you want to set then
14    |   Remove the task from the original level;
15  else
16    |   nothing to do here;
17  end
18  if task is not running, but sleeping then
19    |   set the new level, task->level ← level;
20    |   waking up from sleep, call taskAdd(task);
21  else
22    |   nothing to do here;
23  end
24  change the lv_change flag to 1, therefore, tasks must be switched
    when the task is scheduled next time;
25 Procedure taskAdd(struct TASK *task)
26   look for the corresponding level of the task;
27   place the task in the location indicated by running;
28   running++; Mark the task as running;

```