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Result: Schedule a task to run
1 ENTRANCE: call taskSwitch();
2 Procedure taskSwitch()
3   find out what task is running now_task in the current system based
   on now_lv and now;
4   add the now pointer to 1 for the next task scheduling;
5   if if the now pointer equals the number of running tasks then
6     | zero the now pointer;
7   else
8     | nothing to do here;
9   end
10  if lv_change is not 0 then
11    | call taskSwitchSub();
12    | get the currently running layer;
13  else
14    | nothing to do here;
15  end
16  get the new_task from the currently running level at now pointer;
17  set the timer of the task according to the priority of the task;
18  if new_task != now_task then
19    | jump to new_task run;
20  else
21    | nothing to do here;
22  end
23 Procedure taskSwitchSub()
24  for i  $\leftarrow$  0 to 9 by 1 do
25    | if running task of i level > 0 then
26      | break;
27    | else
28      | nothing to do here;
29    | end
30  end
31  modify the current running level now_lv to i;
32  modify the lv_change to 0, so the next time don't need to call
   taskSwitchSub();

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