算法 1: RGV智能调度算法(2₁)

```
Input: t, updown[2], T, Signal, location, time, Clocation, flag, cncflag
   Output: ans
 1 begin
 2
       if |Signal_{1:8,time}| = 0 then
           index = The first one that meets the requirements with flag
 3
           for i \leftarrow 2 to 8 do
 4
               if Singal_{i,time} < Singal_{index.time} and cncflag_i\&flag
 5
                then
                  index=i
 6
               end
 7
           end
           \textbf{return} \ ans \leftarrow index
 9
       end
10
       // 距离优先原则
       for i \leftarrow 1 to 8 and cncflag_i\&flag do
11
           if Singal_{i,time} is true and location = Clocation_i then
12
              \mathbf{return}\ ans \leftarrow i
13
           end
14
       end
15
       // 智能体现原则(预判)
       将目前离RGV最近且完成工作且满足flag要求的CNC定为k_0
16
       timet = time + t_{location, Cloccation_{k_0}} + updown_{k_0\&1}
17
       找出timet时间内加工完成且离RGV更近且满足要求的CNCk_1
18
       time2 = time + max(T_{k_1}, t_{location, Cloccation_{k_1}}) + updown_{k_1 \& 1}
19
       time2 = time2 + t_{Cloccation_{k_1}, Cloccation_{k_0}} + updown_{k_0\&1}
20
       timet = timet + t_{Cloccation_{k_1}, Cloccation_{k_0}} + updown_{k_1 \& 1}
\mathbf{21}
       if timet \leq time2 then
22
          return ans \leftarrow k_0
23
       else
24
          return ans \leftarrow k_1
25
       end
26
27 end
```