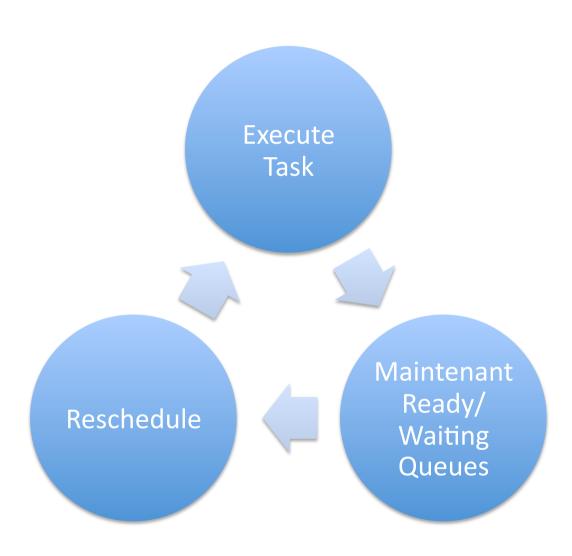
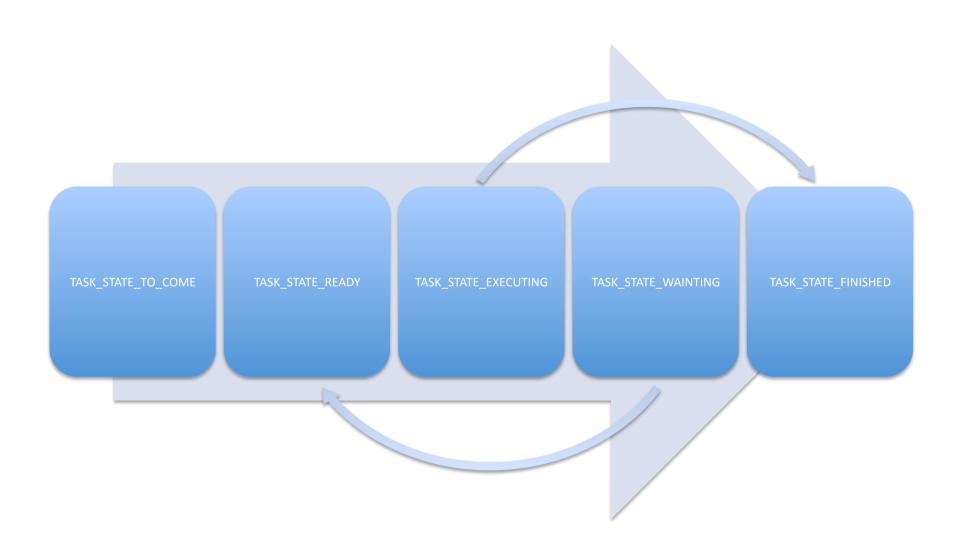
- How does it work?
  - Preemption
  - Time Quantum
  - Queues

- How was it solved?
  - -C
  - Lots of pointers





```
 Structures Used

struct task {
 int priority;
 int state;
 int task_number;
 int time_to_come;
 int process_time;
 int waiting_time;
 int sleep_time;
 instruction_t *instruction;
 instruction_t *curr_instruction;
 task_t *next;
};
```

• Structures Used
 typedef struct \_instruction instruction\_t;
 struct \_instruction {
 int duration;
 int instruction\_type;
 instruction\_t \*next;
 };
 typedef struct \_queue queue\_t;
 struct \_queue {
 task\_t \*task;
 queue\_t \*previous;

queue\_t \*next;

**}**;

procs	: P0	<b>P1</b>	P2	<b>15</b>	R	Ε
0	_	_	E	<b>16</b>	E	W
1	_	_	E	<b>17</b>	Ε	W
2	_	R	E	18	Ε	W
3	_	Ε	W	19	Ε	W
4	_	Ε	W	20	Ε	W
5	R	Ε	R	21	W	R
6	Ε	W	R	22	R	Ε
7	Ε	W	R	23	E	F
8	Ε	W	R	24	Ε	F
9	W	W	E	25	Ε	F
10	W	R	E	26	Ε	F
11	R	R	E	27	Ε	F
12	R	R	E	CPU:	13	6
13	R	R	E	wait:	7	6
14	R	Ε	W	sleep	3	9

R

R R

R R E F F F F F 9 10 3

• Q/A?