## Problem 2

* Ready
  + Could transition to **Running** state. A process that is **Ready** is not currently being executed, and thus, it will be transitioned into **Running** when the scheduler makes room for it.
* Suspended
  + **Suspended** processes may transition back into the **Ready** state once the source of suspension has been satisfied. For instance, a process may transition from **Suspended** to **Ready** if a user has finished entering some input the process was awaiting.
* Running
  + A **Running** process may transition to **Suspended** if it needs to wait for some external process or input. For instance, a process may **Suspend** if it is waiting for the user to input some information.
  + A **Running** process may also transition to **Terminated** in any case where the process will not or cannot run any further instructions. There are many reasons this may occur, such as the main method reaching completion, a fatal error, or if it is aborted by the user or OS.

## Problem 3

1. **FIFO scheduling**
   1. Completion time:
      1. Job 1: **10**
      2. Job 2: **25**
      3. Job 3: **30**
      4. Job 4: **52**
   2. Turnaround time: **(29.25 avg)**
      1. Job 1: **10**
      2. Job 2: **25**
      3. Job 3: **30**
      4. Job 4: **52**
   3. Response time: **(16.25 avg)**
      1. Job 1: **0**
      2. Job 2: **10**
      3. Job 3: **25**
      4. Job 4: **30**
2. **SJF scheduling**
   1. Completion time:
      1. Job 1: **55**
      2. Job 2: **30**
      3. Job 3: **5**
      4. Job 4: **15**
   2. Turnaround time: **(avg 26.25)**
      1. Job 1: **55**
      2. Job 2: **30**
      3. Job 3: **5**
      4. Job 4: **15**
   3. Response time: **(avg 12.5)**
      1. Job 1: **30**
      2. Job 2: **15**
      3. Job 3: **0**
      4. Job 4: **5**
3. **STCF scheduling**
   1. Completion time:
      1. Job 1: **55**
      2. Job 2: **20**
      3. Job 3: **10**
      4. Job 4: **30**
   2. Turnaround time: **(avg: 28.75)**
      1. Job 1: **55**
      2. Job 2: **20**
      3. Job 3: **5**
      4. Job 4: **20**
   3. Response time: **(avg: 10)**
      1. Job 1: **30**
      2. Job 2: **0**
      3. Job 3: **0**
      4. Job 4: **10**
4. **RR scheduling**
   1. Completion time:
      1. Job 1: **47**
      2. Job 2: **31**
      3. Job 3: **25**
      4. Job 4: **48**
   2. Turnaround time: **(avg: 34)**
      1. Job 1: **47**
      2. Job 2: **31**
      3. Job 3: **20**
      4. Job 4: **38**
   3. Response time: **(avg: 2)**
      1. Job 1: **0**
      2. Job 2: **1**
      3. Job 3: **3**
      4. Job 4: **4**