Implement **First Come First Serve** and **Shortest Job First** algorithms for Process Scheduling.

**Input will be provided in a file.**

1. The first line of the file contains an integer, which is the number of processes.
2. Each consecutive line contains three integers.
   1. Process id
   2. Duration
   3. Arrival time

**Implementation Guideline**

1. Create a class name process
   1. Attributes: ID, duration, arrival\_time, start\_time, end\_time, waiting\_time, turnaround\_time, is\_completed
   2. Function: Run
      1. If current time < arrival time, current time = arrival time
      2. Start time = current time
      3. Current time = current time + duration
      4. End time = current time
      5. Waiting time = start time – arrival time
      6. Turnaround time = end time – arrival time
      7. Is completed = true
2. The main class for
   1. FCFS
      1. Take input from file
      2. Create a arraylist of processes
      3. Sort the list based on arrival time
      4. For each process in the list call run function
      5. Finally report avg. waiting time and avg. turnaround time
   2. SJF (Non Preemptive)
      1. Move those job into ready queue whose arrival time is less or equal to current time
      2. Choose the shortest job from ready queue and run it and move it in completed list
      3. As current time has been changed update ready queue (i)
      4. Stop and report avg. waiting and avg. turnaround time when all the processes have been moved to completed list.

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