

## Project 1 second iteration

```
// Results
System.out.println("Process\tArrival Time\tBurst Time\tCompletion Time\tTurnaround Time\tWaiting Time");
for (Process process : processes) {
    System.out.println(process.name + "\t\t" + process.arrivalTime + "\t\t" + process.burstTime + "\t\t" +
        process.completionTime + "\t\t" + process.turnaroundTime + "\t\t" + process.waitingTime);
}
}
```

### New File for this results class

```
// Arrival time and burst time
processes.add(new Process("P1", 0, 6));
processes.add(new Process("P2", 1, 4));
processes.add(new Process("P3", 2, 8));
processes.add(new Process("P4", 3, 3));

// Arrival time (FCFS)
processes.sort(Comparator.comparingInt(p -> p.arrivalTime));

int currentTime = 0;
for (Process process : processes) {
    // completion time
    process.completionTime = Math.max(currentTime, process.arrivalTime) + process.burstTime;

    // turnaround time/waiting time
    process.turnaroundTime = process.completionTime - process.arrivalTime;
    process.waitingTime = process.turnaroundTime - process.burstTime;

    currentTime = process.completionTime;
}
```

### New file for arrival time/burst time

```
class Process {
    String name;
    int arrivalTime;
    int burstTime;
    int completionTime;
    int turnaroundTime;
    int waitingTime;

    public Process(String name, int arrivalTime, int burstTime) {
        this.name = name;
        this.arrivalTime = arrivalTime;
        this.burstTime = burstTime;
    }
}
```

### New file for Main Method Class

**Important notes: Improve overall structure of code and reorganize to streamline the processes. We're going to do some more research into the java language in order to run the software better.**