Solution Description

- 1. I separated the scheduling mechanism from scheduling policies by implementing an "if" statement in my main function. This "if" statement uses the policy typed in on the command line to choose a policy.
- 2. I created three separate functions that can each be called when needed.
- 3. I calculated waiting times by creating a vector called waitingTimes. Then each time a process would finish, I would calculate this process's waiting time using turnaround time minus burst time. The value would be added to the vector, and then after all processes finish I averaged all values in the vector.
- 4. I calculated response times by creating vectors called startTimes and responseTimes. Then each time a process would start, I would add the current time to startTimes. Then when a process finished, I would calculate this process's waiting time using start time minus arrival time. The value would be added to the responseTimes vector, and then after all processes finish I averaged all values in the vector.
- 5. I calculated waiting times by creating a vector called turnaroundTimes. Then each time a process would finish, I would calculate this process's turnaround time using current time minus arrival time. The value would be added to the vector, and then after all processes finish I averaged all values in the vector.
- 6. I used the commonly known parameter "int argc" and "char* argv" to read in command line arguments. I then used a series of "if statements to verify the arguments were correctly formatted.
- 7. My solution is moderately general. It only assumes the task input file is ordered by arrival times and the PID's are in order starting at 1.
- 8. It would be very easy. You would only need to modify the "if" statement in main.
- 9. Yes, this program checks for input errors with command line arguments and the file input.
- 10. I did not use any other than class notes.