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**CMPE 322 PROJECT**

**DOCUMENTATION**

**CASE:**

**In this project we created a job scheduling algorithm as an example of Round Robbin algorithm, our CPU has 100ms execution time limits and we will have processes by starting with the 0ms in different execution time, all processes have different instruction list in the initial part we have to read definition text file and make the execution according to all process’ different instruction list the problem was that our execution time limit was 100ms and processes cannot be completed in 100ms and other processes come different time so we have to schedule executing time.**

**SOLUTION:**

**I created a struct structure named “processInf” it contains all information about processes from the definition text file, I assing all values in that structure in an order and all information have been kept in the v queue, after that I created another queue named “pqueue” and assign the first element of the v queue, “pqueue” was the priority queue and keeps the order of the executing in this queue I reach the code files and make instructions according to them simultaneously I keep the total execution time and controls the situation of the process, if a process cannot be completed I saved its instruction place or if it has completed I exit it from the queue. To write the situation of the “pquue” I created another queue named “currentReadyQueue” and using that queue I write the situation of the ready queue to the output text file.**