Presentation Week 1

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Stats Calculation

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```
while (np != NULL) {
  totalServiceTime += np->processPointer->
  serviceTime;
  totalInterarrivalTime += np->
  processPointer->interarrivalTime;
  if(np->pointerToNextNode == NULL){
    maxWaitTime = np->processPointer->
    serviceStartTime :
    totalWaitTime += np->processPointer->
    serviceStartTime :
}else {
  maxWaitTime = fmax(np->processPointer->
  serviceStartTime - np->processPointer->
  arrivalTime, maxWaitTime);
  totalWaitTime += np->processPointer->
  serviceStartTime -np->processPointer->arriva
```

FCFS(50 processes)

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> Mean Service Time = 1.759322 Mean Interarrival Time = 2.530883 Mean Wait Time = 5.686991 Max Wait Time = 19.837469 Total Service Time = 87.966107

SJF Scheduling Algorithm

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Used 2 queues and 1 priority queue

```
double elapsedTime = 0.0;
while( !isPriorityQueueEmpty(pq) ) {
    ProcessPointer pp = pqDequeue( pq );
    pp->interarrivalTime = exponentialRando
    elapsedTime += pp->interarrivalTime;
    pp->arrivalTime = elapsedTime;
    enqueue(qp, pp);
}
```

SJF VS FCF Scheduling Algorithm

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FCF SJF

Mean Wait Time = 6.824055 Mean Wait Time = 2.722468 Max Wait Time = 20.746983 Max Wait Time = 22.349898

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THE END!!!