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Code:
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// Write a program to implement SJF (with arrival time=0 for all) Calculate
// waiting time, turnaround time for each process. Calculate avg. waiting time,
// avg turnaround time
#include <bits/stdc++.h>
using namespace std;
struct Process {
 int pid;
 int bt;
 int wt;
 int tat;
};
bool compare(Process P1, Process P2) { return P1.bt < P2.bt; }
void findWatingTime(Process processes[], int n) {
 sort(processes, processes + n, compare);
 processes[0].wt = 0;
 for (int i = 1; i \le n; i++) {
  processes[i].wt = 0;
  for (int j = 0; j < i; j++) {
    processes[i].wt += processes[j].bt;
  }
}
void findTurnaroundTime(Process processes[], int n) {
 for (int i = 0; i < n; i++)
  processes[i].tat = processes[i].bt + processes[i].wt;
}
void findAvgTime(Process processes[], int n) {
 int awt = 0, atat = 0;
 findWatingTime(processes, n);
 findTurnaroundTime(processes, n);
 cout << endl;
 cout << "Process\t\tBurst-Time\tWaiting-Time\tTurnAround-Time\n";</pre>
 for (int i = 0; i < n; i++) {
  cout << i + 1 << "\t\t\t" << processes[i].bt << "\t\t\t" << processes[i].wt
      << "\t\t\t\t" << processes[i].tat << endl;
  awt += processes[i].wt;
  atat += processes[i].tat;
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}
 cout << "\nAverage Waiting Time: " << (float)awt / (float)n << endl;</pre>
 cout << "\nAverage Turn-Around Time: " << (float)atat / (float)n << endl;</pre>
}
int main() {
 int n;
 cout << "Enter the number of processes: ";
 cin >> n;
 Process processes[n];
 cout << "\nEnter the process burst time: " << endl;</pre>
 for (int i = 0; i < n; i++) {
  cout << "P[" << i + 1 << "] : ";
  cin >> processes[i].bt;
 findAvgTime(processes, n);
}
Output:
Enter the number of processes: 5
Enter the process burst time:
P[1]: 10
P[2]:1
P[3]:2
P[4]:1
P[5]:5
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Process	Burst-Time	Waiting-Time	TurnAround-Time
1	1	0	1
2	1	1	2
3	2	2	4
4	5	4	9
5	10	9	19

Average Waiting Time: 3.2

Average Turn-Around Time: 7