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Operating system

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Q.2 #include <stdio.h>

int main()

{
int arrival_time[10], burst_time[10], temp[10];
int i, smallest_want = 0, time, limit;
double wait_time = 0, turn_around_time = 0, end;
float average_waiting_time, average_turn_around_time;

printf("\nEnter the total Number of Processes: t");

scanf("%d", &limit);

printf("\nEnter Details of %d Processes", limit);

for (i = 0; i < limit; i++)

{

printf("\nEnter Arrival Time: t");

scanf("%d", &arrival_time[i]);

printf("\nEnter Burst Time: t");

scanf("%d", &burst_time[i]);

temp[i] = burst_time[i];

}

burst_time[9] = 9999;

for time = 0; want != limit; time++

{

smallest = 9;

for (i = 0; i < limit; i++)

2

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if (arrival-time[i] <= time && burst-time[i] < (burst-time[smallest]))
    burst-time[i] > 0)
{
    smallest = i;
}
}

burst-time[smallest]--;
if (burst-time[smallest] == 0)
{
    count++;
    end = time + 1;
    wait-time = wait-time + end - arrival-time[smallest] - temp[smallest];
    turnaround-time
    = turnaround-time + end - arrival-time[smallest];
}
}

average-waiting-time = wait-time / limit;
average-turnaround-time = turnaround-time / limit;
printf("Average Waiting Time: %.1f\n", average-waiting-time);
printf("Average Turnaround Time: %.1f\n", average-turnaround-time);
return 0;
}

```

Enter the Total Number of Processes:4

Enter Details of 4 Processes

Enter Arrival Time: 0

Enter Burst Time: 10

Enter Arrival Time: 0

Enter Burst Time: 2

Enter Arrival Time: 0

Enter Burst Time: 1

Enter Arrival Time: 0

Enter Burst Time: 4

Average Waiting Time: 2.750000

Average Turnaround Time: 7.000000

Process returned 0 (0x0) execution time : 20.464 s

Press any key to continue.