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Course :- BSC IT

Section :- '2B'.

Paper :- Operating System practical

Paper code :- PBI-202

Q.2 :- Each process P1 P2 P3 P4 with arrival time & cpu time respectively (0,10) (0,2), (0,1) (0,4). - - - - - waiting time -

sol :- #include <stdio.h>

int main()

{

int ~~arrival~~ at[10], bt[10], temp[10];

int i, smallest, count = 0, time, limit;

double wt = 0, tat = 0, end;

float avst, atat;

printf("In Enter the Total number of process: (t)");

scanf("%d", &limit);

printf("In Enter Detail of %d process\n", limit);

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

{ printf("In Enter arrival time: (t)");

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

printf("In Enter burst time: (t)");

scanf("%d", &~~burst~~ bt[i]);

temp[i] = bt[i];

}

~~bt~~ 9999;

for (time = 0; count != limit; time++)

{ smallest = 9;

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

{

if (at[i] <= time && ~~bt~~[i] < ~~bt~~[smallest] &&

~~bt~~[i] > 0) {

smallest = i;

}

}

~~bt~~[smallest]--;

if (~~bt~~[smallest] == 0)

{ count++;

end = time + 1;

wt = wt + end - at[smallest] - temp[smallest];

tat = tat + end - at[smallest];

}

}

awt = wt / limit;

atat = tat / limit;

printf("In Average waiting time: %f\n", awt);

printf("In Average turn around time: %f\n", atat);

return 0;

}

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*Patana*

"D:\Workspace\program files\Programming.exe"

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.