#include <stdio.h>

int main()

{

int arrival\_time[10], burst\_time[10], temp[10];

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

double wait\_time = 0, turnaround\_time = 0, end;

float average\_waiting\_time, average\_turnaround\_time;

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

scanf("%d", &limit);

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

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

{

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

scanf("%d", &arrival\_time[i]);

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

scanf("%d", &burst\_time[i]);

temp[i] = burst\_time[i];

}

// burst\_time[9] = 9999;

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

{

smallest = 9;

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

{

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("\n\nAverage Waiting Time:\t%lf\n", average\_waiting\_time);

printf("Average Turnaround Time:\t%lf\n", average\_turnaround\_time);

return 0;

}

OUTPUT:

Enter the Total Number of Processes: 4

Enter Details of 4 Processesn

Enter Arrival Time: 0

Enter Burst Time: 5

Enter Arrival Time: 2

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Enter Burst Time: 3

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Enter Arrival Time: 4

Enter Burst Time: 1

Enter Arrival Time: 5

Enter Burst Time: 6

Average Waiting Time: 2.250000

Average Turnaround Time: 6.000000