#include<stdio.h>

main()

{

int p[20],bt[20],pri[20], wt[20],tat[20],i, k, n, temp; float wtavg,

tatavg;

clrscr();

printf("Enter the number of processes --- ");

scanf("%d",&n);

for(i=0;i<n;i++){

p[i] = i;

printf("Enter the Burst Time & Priority of Process %d --- ",i); scanf("%d

%d",&bt[i], &pri[i]);

}

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

for(k=i+1;k<n;k++)

if(pri[i] > pri[k]){

temp=p[i];

p[i]=p[k];

p[k]=temp;

temp=bt[i];

bt[i]=bt[k];

bt[k]=temp;

temp=pri[i];

pri[i]=pri[k];

pri[k]=temp;

}

wtavg = wt[0] = 0;

tatavg = tat[0] = bt[0];

for(i=1;i<n;i++)

{

wt[i] = wt[i-1] + bt[i-1];

tat[i] = tat[i-1] + bt[i];

wtavg = wtavg + wt[i];

tatavg = tatavg + tat[i];

}

printf("\nPROCESS\t\tPRIORITY\tBURST TIME\tWAITING TIME\tTURNAROUND

TIME");

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

printf("\n%d \t\t %d \t\t %d \t\t %d \t\t %d ",p[i],pri[i],bt[i],wt[i],tat[i]);

printf("\nAverage Waiting Time is --- %f",wtavg/n); printf("\nAverage

Turnaround Time is --- %f",tatavg/n);

getch();}

INPUT

Enter the number of processes -- 5

Enter the Burst Time & Priority of Process 0 --- 10 3

Enter the Burst Time & Priority of Process 1 --- 1 1

Enter the Burst Time & Priority of Process 2 --- 2 4

Enter the Burst Time & Priority of Process 3 --- 1 5

Enter the Burst Time & Priority of Process 4 --- 5 2

OUTPUT

PROCESS PRIORITY BURST TIME WAITIN

G TIME

TURNARO

UND TIME

1 1 1 0 1

4 2 5 1 6

0 3 10 6 16

2 4 2 16 18

3 5 1 18 19

Average Waiting Time is --- 8.200000

Average Turnaround Time is --- 12.000000