#include<stdio.h>

void main()

{

int x,n,p[10],pp[10],pt[10],w[10],t[10],awt,atat,i,j;

printf("Enter the number of process : ");

scanf("%d",&n);

printf("\n Enter process : time priorities \n");

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

{

printf("\nProcess no %d : ",i+1);

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

p[i]=i+1;

}

for(i=0;i<n-1;i++)

{

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

{

if(pp[i]<pp[j])

{

x=pp[i];

pp[i]=pp[j];

pp[j]=x;

x=pt[i];

pt[i]=pt[j];

pt[j]=x;

x=p[i];

p[i]=p[j];

p[j]=x;

}

}

}

w[0]=0;

awt=0;

t[0]=pt[0];

atat=t[0];

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

{

w[i]=t[i-1];

awt+=w[i];

t[i]=w[i]+pt[i];

atat+=t[i];

}

printf("\n\n Job \t Burst Time \t Wait Time \t Turn Around Time Priority \n");

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

printf("\n %d \t\t %d \t\t %d \t\t %d \t\t %d \n",p[i],pt[i],w[i],t[i],pp[i]);

awt/=n;

atat/=n;

printf("\n Average Wait Time : %d \n",awt);

printf("\n Average Turn Around Time : %d \n",atat);

getch();

}