```java
import java.util.Scanner;
public class Main {

    public static void main(String args[]) {
        Scanner s = new Scanner(System.in);
        int x,n,p[],pp[],bt[],w[],t[],ft[],awt,atat,i;
        System.out.print("Enter the number of process : ");
        n = s.nextInt();
        p = new int[n];
        pp = new int[n];
        bt = new int[n];
        w = new int[n];
        t = new int[n];
        ft=new int[n];
        //n is number of process
        //p is process
        //pp is process priority
        //bt is process burst time
        //w is wait time
        // t is turnaround time
        //awt is average waiting time
        //atat is average turnaround time

        System.out.print("\n\t Enter burst time : time priorities \n");
        for(i=0;i<n;i++)
        {
        System.out.print("\nProcess["+(i+1)+"]:");
        bt[i] = s.nextInt();
        pp[i] = s.nextInt();
        p[i]=i+1;
```

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}
//sorting on the basis of priority
for(i=0;i<n-1;i++)
{
for(int j=i+1;j<n;j++)
{
if(pp[i]<pp[j])
{
x=pp[i];
pp[i]=pp[j];
pp[j]=x;
x=bt[i];
bt[i]=bt[j];
bt[j]=x;
x=p[i];
p[i]=p[j];
p[j]=x;
}
}
}
w[0]=0;
awt=0;
t[0]=bt[0];
ft[0]=bt[0];
atat=t[0];
for(i=1;i<n;i++)
{
ft[i]=ft[i-1]+bt[i];
w[i]=ft[i-1];
// w[i]=t[i-1];
```

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awt+=w[i];

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

atat+=t[i];

}
//Displaying the process
 System.out.print("\n\nProcess \t Burst Time \t Wait Time \t Turn Around Time Priority \n");
for(i=0;i<n;i++)
 System.out.print("\n "+p[i]+"\t\t "+bt[i]+"\t\t "+w[i]+"\t\t "+t[i]+"\t\t "+pp[i]+"\n");
awt/=n;
atat/=n;
 System.out.print("\n Average Wait Time : "+awt);
 System.out.print("\n Average Turn Around Time : "+atat);
 }
}
```