```
package algose;



import java.util.Scanner;
public class priority {
public static void main(String args[]) {
Scanner s = new Scanner(System.in);
int x,n,p[],pp[],bt[],w[],t[],awt,atat,i;
p = new int[10];
pp = new int[10];
bt = new int[10];
w = new int[10];
t = new int[10];

System.out.print("Enter the number of process : ");
n = s.nextInt();
System.out.print("\n\t Enter CPU time---priority \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;
}

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];
atat=t[0];
for(i=1;i<n;i++)
{
w[i]=t[i-1];
awt+=w[i];
t[i]=w[i]+bt[i];
atat+=t[i];
}

System.out.println("-----------------------------------------------------------------
----");
System.out.print("\n\nProcess \t\t |Burst Time \t\t |Wait Time \t\t |Turn Time \n");
System.out.println("-----------------------------------------------------------------
----");
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");
System.out.println("-------------------------------------------------------------------------
----");
awt/=n;
atat/=n;
System.out.print("\n Average Wait Time : "+awt);
System.out.print("\n Average Turn Around Time : "+atat);
}
}
```

```
Process[1]:3
4
Process[2]:2
1
Process[3]:1
2
Process[4]:3
4
Process[5]:2
1

------------------------------------------------------------------------
Process       |Burst Time       |Wait Time          |TurnTime
------------------------------------------------------------------------
1              | 3      | 0        |3           | 4
4              | 3      | 3        |6           | 4
3              | 1      | 6        |7           | 2
2              | 2      | 7        |9           | 1
5              | 2      | 9        |11               | 1
------------------------------------------------------------------------
Average Wait Time : 5
Average Turn Around Time : 7
```