import java.util.\*;

class PriorityNP

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.*in*);

System.*out*.println("Enter the no. of Parameters");

int n=sc.nextInt();

int pid[]=new int[n];

int at[]=new int[n];

int bt[]=new int[n];

int ct[]=new int[n];

int tat[]=new int[n];

int wt[]=new int[n];

int f[]=new int[n];

int btt[]=new int[n];

int prio[]=new int[n];

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

{

System.*out*.println("Enter the process id:");

pid[i]=sc.nextInt();

System.*out*.println("Enter the arrival Time:");

at[i]=sc.nextInt();

System.*out*.println("Enter the Burst time:");

bt[i]=sc.nextInt();

btt[i]=bt[i];

System.*out*.println("Enter Priority Time:");

prio[i]=sc.nextInt();

f[i]=0;

}

sc.close();

int st=0;

int total=0;

//int i=0;

while(true)

{

if(total==n)

break;

int c=n;

int min=99;

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

{

if(at[i]<=st&&f[i]==0&&prio[i]<min)

{

c=i;

min=prio[i];

}

}

if(c==n)

{

st+=1;

}

else

{

ct[c]=st+bt[c];

f[c]=1;

st=ct[c];

total++;

}

}

for(int k=0;k<n;k++)

{

tat[k]=ct[k]-at[k];

wt[k]=tat[k]-bt[k];

}

for(int j=0;j<n;j++)

{

System.*out*.println(pid[j]+"\t"+at[j]+"\t"+btt[j]+"\t"+prio[j]+"\t"+ct[j]+"\t"+tat[j]+"\t"+wt[j]);

}

}

}



