import java.util.\*;

class PriorityP

{

public static void main(String[] args) {

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

System.***out***.println("Enter no. of process : ");

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 process id: ");

pid[i] = sc.nextInt();

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

at[i] = sc.nextInt();

System.***out***.println("Enter 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( 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

{

bt[c]=bt[c]-1;

st=st+1;

if(bt[c]==0)

{

ct[c]=st;

f[c]=1;

total++;

}

}

}

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

{

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

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

}

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

{

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

}

}

}

