import java.util.\*;

public class Fcfs {

public static void main(String[] args) {

Scanner sc= new Scanner(System.in);

System.out.println("ENTER THE SIZE OF AT");

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];

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 Bus Time");

BT[i]=sc.nextInt();

}

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

{

for (int j=0;j<n-1;j++)

{

if(AT[j]>AT[j+1])

{

int temp=AT[j];

AT[j]=AT[j+1];

AT[j+1]=temp;

temp=BT[j];

BT[j]=BT[j+1];

BT[j+1]=temp;

temp=PID[j];

PID[j]=PID[j+1];

PID[j+1]=temp;

}

}

}

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

{

if(i==0)

{

CT[i]=AT[i]+BT[i];

}

else

{

if(AT[i]>CT[i-1])

{

CT[i]=AT[i]+BT[i];

}

else

{

CT[i]=CT[i-1]+BT[i];

}

}

}

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

{

TAT[i]=CT[i]-AT[i];

WT[i]=TAT[i]-BT[i];

}

System.out.println("Process\tAT\tBT\tCT\tTAT\tWT");

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

{

System.out.println(PID[i] +"\t" +AT[i] +"\t" +CT[i] +"\t" +BT[i] +"\t" +TAT[i] +"\t" + WT[i]);

}

sc.close();

}

}

}

