package pakage;

import java.util.\*;

public class FCFS {

public static void main(String args[]) {

int i,no\_p,burst\_time[],TT[],WT[];

float avg\_wait=0,avg\_TT=0;

burst\_time=new int[50];

TT=new int[50];

WT=new int[50];

WT[0]=0;

Scanner s=new Scanner(System.in);

System.out.println("Enter the number of process: ");

no\_p=s.nextInt();

System.out.println("\nEnter Burst Time for processes:");

for(i=0;i<no\_p;i++) {

System.out.print("\tP"+(i+1)+": ");

burst\_time[i]=s.nextInt();

}

for(i=1;i<no\_p;i++) {

WT[i]=WT[i-1]+burst\_time[i-1];

avg\_wait+=WT[i];

}

avg\_wait/=no\_p;

for(i=0;i<no\_p;i++) {

TT[i]=WT[i]+burst\_time[i];

avg\_TT+=TT[i];

}

avg\_TT/=no\_p;

System.out.println("\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("\tProcesses:");

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println(" Process\tBurst Time\tWaiting Time\tTurn Around Time");

for(i=0;i<no\_p;i++) {

System.out.println("\tP"+(i+1)+"\t "+burst\_time[i]+"\t\t "+WT[i]+"\t\t "+TT[i]);

}

System.out.println("\n----------------------------------------------------------------");

System.out.println("\nAverage waiting time : "+avg\_wait);

System.out.println("\nAverage Turn Around time : "+avg\_TT+"\n");

}

}