```
import java.util.*;


public class Main {
   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]; // at means arrival time
      int bt[] = new int[n]; // bt means burst time
      int ct[] = new int[n]; // ct means complete time
      int ta[] = new int[n]; // ta means turn around time
      int wt[] = new int[n];  //wt means waiting time
      int f[] = new int[n];  // f means it is flag it checks process is completed or not
      int st=0, tot=0;
      float avgwt=0, avgta=0;

      for(int i=0;i<n;i++)
      {
         System.out.println ("enter process " + (i+1) + " arrival time:");
         at[i] = sc.nextInt();
         System.out.println ("enter process " + (i+1) + " brust time:");
         bt[i] = sc.nextInt();
         pid[i] = i+1;
         f[i] = 0;
      }
      boolean a = true;
      while(true)
      {
```

```
   int c=n, min=999;
   if (tot == n) // total no of process = completed process loop will be terminated
      break;
   for (int i=0; i<n; i++)
   {
      /*
       * If i'th process arrival time <= system time and its flag=0 and burst<min
       * That process will be executed first
       */
      if ((at[i] <= st) && (f[i] == 0) && (bt[i]<min))
      {
         min=bt[i];
         c=i;
      }
   }
   if (c==n)
      st++;
   else
   {
      ct[c]=st+bt[c];
      st+=bt[c];
      ta[c]=ct[c]-at[c];
      wt[c]=ta[c]-bt[c];
      f[c]=1;
      tot++;
   }
}
System.out.println("\npid  arrival brust  complete turn waiting");
for(int i=0;i<n;i++)
{
```

```
            avgwt+= wt[i];
            avgta+= ta[i];
            System.out.println(pid[i]+"\t"+at[i]+"\t"+bt[i]+"\t"+ct[i]+"\t"+ta[i]+"\t"+wt[i]);
        }
        System.out.println ("\naverage tat is "+ (float)(avgta/n));
        System.out.println ("average wt is "+ (float)(avgwt/n));
        sc.close();
    }
}
```