```
//SJF
import java.util.*;
public class SJF {
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 ta[] = new int[n];
int wt[] = new int[n];
int f[] = new int[n];
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)
break;
for (int i=0; i<n; i++)
if ((at[i] \le st) \&\& (f[i] == 0) \&\& (bt[i] \le 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;
```

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tot++;
}
System.out.println("\npid arrival brust complete turn waiting");
for(int i=0;i<n;i++)</pre>
avgwt+= wt[i];
avgta+= ta[i];
System.out.println(pid[i]+"\t"+at[i]+"\t"+bt[i]+"\t"+ct[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[i]+"\t"+ta[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();
}
/*
   OUTPUT-
enter no of process:
enter process 1 arrival time:
enter process 1 brust time:
enter process 2 arrival time:
enter process 2 brust time:
enter process 3 arrival time:
enter process 3 brust time:
enter process 4 arrival time:
enter process 4 brust time:
pid arrival brust complete turn waiting
                                                                                       5
                                                                                                             2
1
                     1
                                           3
                                                                 6
2
                      2
                                                                                      8
                                           4
                                                                 10
                                                                                                             4
3
                      1
                                           2
                                                                  3
                                                                                       2
                                                                                                             0
                                                                                      10
                      4
                                           4
                                                                 14
                                                                                                             6
average tat is 6.25
average wt is 3.0
    */
```