

Coding C

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RUN

MENU

```
1 #include<stdio.h>
2 int main()
3 {
4 int bt[20],p[20],wt[20],tat[20],i,j,n,total=0,pos,temp;
5 float avg_wt,avg_tat;
6 printf("Enter number of process:");
7 scanf("%d",&n);
8
9 printf("\nEnter Burst Time:\n");
10 for(i=0;i<n;i++)
11 {
12 printf("p%d:",i+1);
13 scanf("%d",&bt[i]);
14 p[i]=i+1;
15 }
16 for(i=0;i<n;i++)
17 {
18 pos=i;
19 for(j=i+1;j<n;j++)
20 {
21 if(bt[j]<bt[pos])
22 pos=j;
23 }
24
25 temp=bt[i];
26 bt[i]=bt[pos];
27 bt[pos]=temp;
28
29 temp=p[i];
30 p[i]=p[pos];
31 p[pos]=temp;
32 }
33
34 wt[0]=0;
35
36
37 for(i=1;i<n;i++)
38 {
39 wt[i]=0;
40 for(j=0;j<i;j++)
41 wt[i]+=bt[j];
42
43 total+=wt[i];
44 }
45
46 avg_wt=(float)total/n;
47 total=0;
48
49 printf("\nProcess\tBurst Time\tWaiting Time\tTurnaround Time");
50 for(i=0;i<n;i++)
51 {
52 tat[i]=bt[i]+wt[i];
53 total+=tat[i];
54 printf("\np%d\t\t %d\t\t %d\t\t %d",p[i],bt[i],wt[i],tat[i]);
55 }
56
57 avg_tat=(float)total/n;
58 printf("\n\nAverage Waiting Time=%f",avg_wt);
59 printf("\n\nAverage Turnaround Time=%f",avg_tat);
60 }
```

Enter number of process:5

Enter Burst Time:

p1:4

p2:3

p3:7

p4:1

p5:2

| Process | Burst Time | Waiting Time | Turnaround Time |
|---------|------------|--------------|-----------------|
| p4 | 1 | 0 | 1 |
| p5 | 2 | 1 | 3 |
| p2 | 3 | 3 | 6 |
| p1 | 4 | 6 | 10 |
| p3 | 7 | 10 | 17 |

Average Waiting Time=4.000000

Average Turnaround Time=7.400000

(program exited with code: 0)

Press any key to continue . . .