

OS6.cpp - [Executing] - Embarcadero Dev-C++ 6.3

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TDM-GCC 9.2.0 64-bit Release

(globals)

Project Class OS6.cpp

```
1 #include <stdio.h>
2
3 int main() {
4     int n, i, time = 0, completed = 0;
5     printf("Enter number of processes: ");
6     scanf("%d", &n);
7
8     int at[n], bt[n], priority[n], rt[n], wt[n], tat[n];
9     for (i = 0; i < n; i++) {
10        printf("Process %d Arrival Time, Burst Time, Priority: ", i + 1);
11        scanf("%d %d %d", &at[i], &bt[i], &priority[i]);
12        rt[i] = bt[i];
13    }
14
15    int total_wt = 0, total_tat = 0;
16
17    while (completed < n) {
18        int idx = -1, highest = 10000;
19        for (i = 0; i < n; i++) {
20            if (at[i] <= time && rt[i] > 0 && priority[i] < highest) {
21                highest = priority[i];
22                idx = i;
23            }
24        }
25
26        if (idx != -1) {
27            rt[idx]--;
28            if (rt[idx] == 0) {
29                completed++;
30            }
31        }
32        time++;
33    }
34
35    printf("Process AT\tBT\tPriority\tWT\tTAT\n");
36    for (i = 0; i < n; i++) {
37        printf("P%d\t%d\t%d\t%d\t%d\n", i + 1, at[i], priority[i], wt[i], tat[i]);
38    }
39
40    printf("Average WT = %.2f\n", (float)total_wt / n);
41    printf("Average TAT = %.2f\n", (float)total_tat / n);
42
43    printf("Process exited after 55.08 seconds with return value 0\n");
44    printf("Press any key to continue . . . ");
45    getch();
46    return 0;
47 }
```

Compiler Resources Compile Log Debug Find Results Console Close

Abort Compilation

Shorten compiler path

Errors: 0  
Warnings: 0  
Output Filename: C:\Users\mudir\OneDrive\Documents\OS6.exe  
Output Size: 324.453125 KiB  
Compilation Time: 0.41s

Line: 4 Col: 39 Sel: 0 Lines: 48 Length: 1370 Insert Done parsing in 0.141 seconds

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Search

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C:\Users\mudir\OneDrive\Documents\OS6.exe

Enter number of processes: 3  
Process 1 Arrival Time, Burst Time, Priority: 0  
5  
2  
Process 2 Arrival Time, Burst Time, Priority: 1  
3  
1  
Process 3 Arrival Time, Burst Time, Priority: 2  
8  
3

Process	AT	BT	Priority	WT	TAT
P1	0	5	2	3	8
P2	1	3	1	0	3
P3	2	8	3	6	14

Average WT = 3.00  
Average TAT = 8.33

Process exited after 55.08 seconds with return value 0  
Press any key to continue . . . |