

CA\Users\mudir\OneDrive\Documents\OS7.cpp - [Executing] - Embarcadero Dev-C++ 6.3

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TDM-GCC 9.2.0 64-bit Release

(globals)

Project Class OS6.cpp OS7.cpp

```
1 #include <stdio.h>
2
3 int main() {
4     int n, i, j, time = 0;
5     printf("Enter number of processes: ");
6     scanf("%d", &n);
7
8     int at[n], bt[n], wt[n], tat[n], completed[n];
9     for (i = 0; i < n; i++) {
10         printf("Process %d Arrival Time and Burst Time: ", i + 1);
11         scanf("%d %d", &at[i], &bt[i]);
12         completed[i] = 0;
13     }
14
15     int total_wt = 0, total_tat = 0, completed_count = 0;
16
17     while (completed_count < n) {
18         int idx = -1;
19         int min_bt = 1000000;
20         for (i = 0; i < n; i++) {
21             if (at[i] <= time && !completed[i] && bt[i] < min_bt) {
22                 min_bt = bt[i];
23                 idx = i;
24             }
25         }
26
27         if (idx != -1) {
28             wt[idx] = time - at[idx];
29             time += bt[idx];
```

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Abort Compilation

Shorten compiler pat

Errors: 0
Warnings: 0
Output Filename: C:\Users\mudir\OneDrive\Documents\OS7.exe
Output Size: 324.453125 KiB
Compilation Time: 0.20s

Line: 12 Col: 28 Sel: 0 Lines: 49 Length: 1327 Insert Done parsing in 0.015 seconds

ENG IN 14:28 27-09-2025

Enter number of processes: 3
Process 1 Arrival Time and Burst Time: 4
5
Process 2 Arrival Time and Burst Time: 6
9
Process 3 Arrival Time and Burst Time: 2
6

Process	AT	BT	WT	TAT
P1	4	5	4	9
P2	6	9	7	16
P3	2	6	0	6

Average WT = 3.67
Average TAT = 10.33

Process exited after 9.584 seconds with return value 0
Press any key to continue . . . |