

C:\Users\janal\OneDrive\Documents\OS-7.cpp - [Executing] - Dev-C++ 5.11

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TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug [\*] OS-6.cpp OS-7.cpp

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int n, i, j, time = 0;
6     printf("Enter number of processes: ");
7     scanf("%d", &n);
8
9     int at[n], bt[n], wt[n], tat[n], completed[n];
10    for (i = 0; i < n; i++) {
11        printf("Process %d Arrival Time and Burst Time: ", i + 1);
12        scanf("%d %d", &at[i], &bt[i]);
13        completed[i] = 0;
14    }
15
16    int total_wt = 0, total_tat = 0, completed_count = 0;
17
18    while (completed_count < n) {
19        int idx = -1;
20        int min_bt = 100000;
21        for (i = 0; i < n; i++) {
22            if (at[i] <= time && !completed[i] && bt[i] < min_bt) {
23                min_bt = bt[i];
24                idx = i;
25            }
26        }
27    }
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\janal\OneDrive\Documents\OS-7.exe
- Output Size: 130.2705078125 KiB
- Compilation Time: 0.20s

Line: 48 Col: 2 Sel: 0 Lines: 48 Length: 1327 Insert Done parsing in 0.031 seconds

C:\Users\janal\OneDrive\Documents\OS-7.exe

```
Enter number of processes: 4
Process 1 Arrival Time and Burst Time: 3 4
Process 2 Arrival Time and Burst Time: 5 6
Process 3 Arrival Time and Burst Time: 7 8
Process 4 Arrival Time and Burst Time: 9 23

Process AT    BT    WT    TAT
P1           3     4     0     4
P2           5     6     2     8
P3           7     8     6    14
P4           9    23    12    35

Average WT = 5.00
Average TAT = 15.25

-----
Process exited after 12.79 seconds with return value 0
Press any key to continue . . .
```

14:57 27-09-2025