

CA\Users\mudir\OneDrive\Documents\OS8.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 OS8.cpp

```
1 #include <stdio.h>
2
3 int main() {
4     int n, i, time = 0, tq;
5     printf("Enter number of processes: ");
6     scanf("%d", &n);
7
8     int at[n], bt[n], rt[n], wt[n], tat[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         rt[i] = bt[i];
13     }
14
15     printf("Enter Time Quantum: ");
16     scanf("%d", &tq);
17
18     int completed = 0;
19     int total_wt = 0, total_tat = 0;
20
21     while (completed < n) {
22         int done = 1;
23         for (i = 0; i < n; i++) {
24             if (rt[i] > 0 && at[i] <= time) {
25                 done = 0;
26                 if (rt[i] > tq) {
27                     time += tq;
28                     rt[i] -= tq;
29                 } else {
```

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

Process	AT	BT	WT	TAT
P1	2	4	0	4
P2	5	7	7	14
P3	8	9	5	14

Average WT = 4.00
Average TAT = 10.67

Process exited after 19.5 seconds with return value 0
Press any key to continue . . .

Compiler Resources Compile Log Debug Find Results Console Close

Abort Compilation

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\mudir\OneDrive\Documents\OS8.exe
- Output Size: 324.453125 KiB
- Compilation Time: 0.19s

Shorten compiler pat

Line: 22 Col: 23 Sel: 0 Lines: 52 Length: 1422 Insert Done parsing in 0 seconds

14:29 27-09-2025