

C:\Users\jana\OneDrive\Documents\OS-4.cpp - [Executing] - Dev-C++ 5.11

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TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug

OS-1.cpp OS-3.cpp OS-4.cpp

```
1 #include <stdio.h>
2
3 int main() {
4     int n, i, time = 0, done = 0;
5     printf("Number of processes: ");
6     scanf("%d", &n);
7
8     int at[n], bt[n], ct[n], tat[n], wt[n], done_arr[n];
9     for(i = 0; i < n; i++) {
10         printf("AT and BT for P%d: ", i+1);
11         scanf("%d %d", &at[i], &bt[i]);
12         done_arr[i] = 0;
13     }
14
15     while(done < n) {
16         int idx = -1, min_bt = 1e6;
17         for(i = 0; i < n; i++) {
18             if(!done_arr[i] && at[i] <= time && bt[i] < min_bt) { min_bt = bt[i]; idx = i; }
19             if(idx == -1) { time++; continue; }
20
21             ct[idx] = time + bt[idx];
22             tat[idx] = ct[idx] - at[idx];
23             wt[idx] = tat[idx] - bt[idx];
24             time = ct[idx];
25             done_arr[idx] = 1;
26             done++;
27         }
28     }
29
30     printf("\nPID\tAT\tBT\tCT\tTAT\tWT\n");
31     for(i = 0; i < n; i++) {
32         printf("%d\t%d\t%d\t%d\t%d\t%d\n", i+1, at[i], bt[i], ct[i], tat[i], wt[i]);
33     }
34     return 0;
35 }
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\jana\OneDrive\Documents\OS-3.exe
- Output Size: 130.2705078125 KiB
- Compilation Time: 1.78s

Line: 1 Col: 1 Sel: 0 Lines: 36 Length: 950 Insert Done parsing in 0.016 seconds

Hot days ahead 34°C

Search

ENG IN

14:34 26-09-2025

C:\Users\jana\OneDrive\Documents\OS-4.cpp

Number of processes: 5
AT and BT for P1: 5 6 4 3 2
AT and BT for P2: AT and BT for P3: 8 9 6 5 4
AT and BT for P4: AT and BT for P5:

PID	AT	BT	CT	TAT	WT
1	5	6	23	18	12
2	4	3	13	9	6
3	2	8	10	8	0
4	9	6	29	20	14
5	5	4	17	12	8

Process exited after 14.9 seconds with return value 0
Press any key to continue . . .