

C:\Users\janal\OneDrive\Documents\OS-5.cpp - [Executing] - Dev-C++ 5.11

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(globals)

Project Classes Debug OS-3.cpp OS-5.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], pr[n], ct[n], tat[n], wt[n], done_arr[n];
9     for(i = 0; i < n; i++) {
10         printf("AT, BT, PR for P%d: ", i+1);
11         scanf("%d %d %d", &at[i], &bt[i], &pr[i]);
12         done_arr[i] = 0;
13     }
14
15     while(done < n) {
16         int idx = -1, highest = 1e9;
17         for(i = 0; i < n; i++) {
18             if(!done_arr[i] && at[i] <= time && pr[i] < highest) { highest = pr[i]; idx = i; }
19         }
20         if(idx == -1) { time++; continue; }
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     printf("\nPID\tAT\tBT\tPR\tCT\tTAT\tWT\n");
30     for(i = 0; i < n; i++) {
31         printf("%d\t%d\t%d\t%d\t%d\t%d\t%d\n", i+1, at[i], bt[i], pr[i], ct[i], tat[i], wt[i]);
32     }
33
34     return 0;
35 }
36
```

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Line: 1 Col: 1 Sel: 0 Lines: 36 Length: 987 Insert Done parsing

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Number of processes: 6
AT, BT, PR for P1: 3 4 56 6 7
AT, BT, PR for P2: 3 4 5 6 7
AT, BT, PR for P3: AT, BT, PR for P4: 4 5 6 7 8
AT, BT, PR for P5: AT, BT, PR for P6: 5 62 34 56 7

| PID | AT | BT | PR | CT | TAT | WT |
|-----|----|----|----|----|-----|----|
| 1 | 3 | 4 | 56 | 7 | 4 | 0 |
| 2 | 6 | 7 | 3 | 14 | 8 | 1 |
| 3 | 4 | 5 | 6 | 23 | 19 | 14 |
| 4 | 7 | 4 | 5 | 18 | 11 | 7 |
| 5 | 6 | 7 | 8 | 30 | 24 | 17 |
| 6 | 5 | 62 | 34 | 92 | 87 | 25 |

Process exited after 32.62 seconds with return value 0
Press any key to continue . . .

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