C:\Users\aswin\Documents\FCFSOS.C - [Executing] - Embarcadero Dev-C++ 6.3

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TDM-GCC 9.2.0 64-bit Release

(globals)

Project C

FCFSOS.C

```c
#include<stdio.h>
int main()
{
    int bt[10]={0},at[10]={0},tat[10]={0},wt[10]={0},ct[10]={0};
    int n,sum=0;
    float totalTAT=0,totalWT=0;
    printf("Enter number of processes   ");
    scanf("%d",&n);
    printf("Enter arrival time and burst time for each process\n\n");
    for(int i=0;i<n;i++)
    {
        printf("Arrival time of process[%d] ",i+1);
        scanf("%d",&at[i]);
        printf("Burst time of process[%d]   ",i+1);
        scanf("%d",&bt[i]);
        printf("\n");
    }
    for(int j=0;j<n;j++)
    {
        sum+=bt[j];
        ct[j]+=sum;
    }
    for(int k=0;k<n;k++)
    {
        tat[k]=ct[k]-at[k];
        totalTAT+=tat[k];
    }
    for(int k=0;k<n;k++)
    {
        wt[k]=tat[k]-bt[k];
        totalWT+=wt[k];
    }
    printf("Solution: \n\n");
    printf("P#\t AT\t BT\t CT\t TAT\t WT\t\n\n");
    for(int i=0;i<n;i++)
    {
        printf("P%d\t %d\t %d\t %d\t %d\t %d\n",i+1,at[i],bt[i],ct[i],tat[i],wt[i]);
    }
    printf("\n\nAverage Turnaround Time = %f\n",totalTAT/n);
    printf("Average WT = %f\n\n",totalWT/n);
    return 0;
}
```

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Line: 20 Col: 20 Sel: 0 Lines: 42 Length: 967 Insert Done parsing in 0.094 seconds

C:\Users\aswin\Documents\FCFSOS.exe

```
Arrival time of process[1]      0
Burst time of process[1]        23

Arrival time of process[2]      10
Burst time of process[2]        10

Arrival time of process[3]      16
Burst time of process[3]        4

Arrival time of process[4]      19
Burst time of process[4]        16

Solution:

P#      AT      BT      CT      TAT     WT

P1      0       23      23      23      0
P2      10      10      33      23      13
P3      16      4       37      21      17
P4      19      16      53      34      18


Average Turnaround Time = 25.250000
Average WT = 12.000000


--------------------------------
Process exited after 43.94 seconds with return value 0
Press any key to continue . . .
```