

9. Consider three processes (process id 0, 1, 2 respectively) with compute time bursts 2, 4 and 8-time units. All processes arrive at time zero. Write a program to compute the average waiting time and average turnaround time based on First Come First Serve scheduling

C:\Users\hp\Documents\fcfs cpu scheduling.cpp - [Executing] - Dev-C++ 5.11

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TDM-GCC 4.9.2 64-bit Release

(globals)

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```
1  #include<stdio.h>
2
3  int main() {
4      int n = 3; // number of processes
5      int bt[] = {2, 4, 8}; // burst times of the processes
6      int wt[n], tat[n], total_wt = 0, total_tat = 0;
7
8      wt[0] = 0; // waiting time of first process is 0
9
10     // calculating waiting time of each process
11     for(int i = 1; i < n; i++) {
12         wt[i] = bt[i-1] + wt[i-1];
13     }
14
15     // calculating turnaround time of each process
16     for(int i = 0; i < n; i++) {
17         tat[i] = bt[i] + wt[i];
18     }
19
20     // calculating total waiting time and total turnaround time
21     for(int i = 0; i < n; i++) {
22         total_wt += wt[i];
23         total_tat += tat[i];
24     }
25
26     // calculating average waiting time and average turnaround time
27     float avg_wt = (float)total_wt/n;
28     float avg_tat = (float)total_tat/n;
29
30     // printing results
31     printf("Average Waiting Time: %.2f\n", avg_wt);
32     printf("Average Turnaround Time: %.2f", avg_tat);
33
34     return 0;
35 }
36
```

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Line: 28 Col: 39 Sel: 0 Lines: 36 Length: 944 Insert Done parsing in 0.015 seconds

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C:\Users\hp\Documents\1st\cpu scheduling.exe

Average Waiting Time: 2.67

Average Turnaround Time: 7.33

Process exited after 0.05244 seconds with return value 0

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