16. Write a program to compute the average waiting time and average turnaround time based on
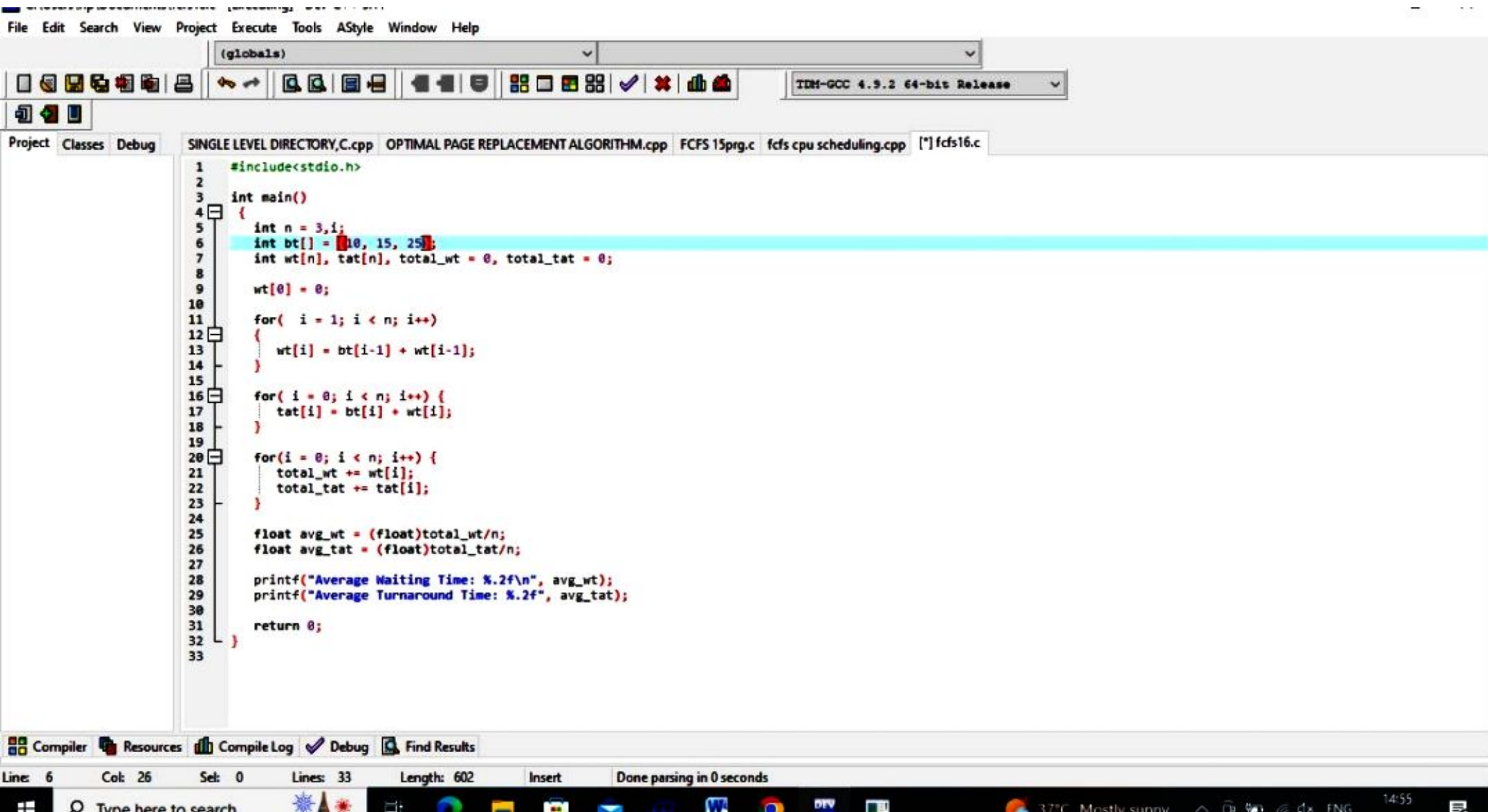
First Come First Serve for the following process with the given CPU burst times, (and the assumption that all jobs arrive at the same time.)

Process   Burst Time

P1 10

P2 15

P325

(globals)

TDM-GCC 4.9.2 64-bit Release

Project   Classes   Debug   SINGLE LEVEL DIRECTORY,C.cpp   OPTIMAL PAGE REPLACEMENT ALGORITHM.cpp   FCFS 15prg.c   fcfs cpu scheduling.cpp   [*] fcfs16.c

```c
1    #include<stdio.h>
2
3    int main()
4    {
5        int n = 3,i;
6        int bt[] = {10, 15, 25};
7        int wt[n], tat[n], total_wt = 0, total_tat = 0;
8
9        wt[0] = 0;
10
11       for(  i = 1; i < n; i++)
12       {
13           wt[i] = bt[i-1] + wt[i-1];
14       }
15
16       for( i = 0; i < n; i++) {
17           tat[i] = bt[i] + wt[i];
18       }
19
20       for(i = 0; i < n; i++) {
21           total_wt += wt[i];
22           total_tat += tat[i];
23       }
24
25       float avg_wt = (float)total_wt/n;
26       float avg_tat = (float)total_tat/n;
27
28       printf("Average Waiting Time: %.2f\n", avg_wt);
29       printf("Average Turnaround Time: %.2f", avg_tat);
30
31       return 0;
32   }
33
```

Compiler   Resources   Compile Log   Debug   Find Results

Line: 6   Col: 26   Sel: 0   Lines: 33   Length: 602   Insert   Done parsing in 0 seconds

Type here to search   37°C Mostly sunny   ENG   14:55

```
Average Waiting Time: 11.67
Average Turnaround Time: 28.33
--------------------------------
Process exited after 0.04743 seconds with return value 0
Press any key to continue . . .
```