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Lab 3

Ques: Understand the FCFS algorithm: Implement the same.

Ans: Source Code

```
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#include<bits/stdc++.h>
using namespace std;
void findWaitingTime(int processes[], int n,int bt[], int wt[]) // Function to find the waiting time
   wt[0] = 0;
        wt[i] = bt[i-1] + wt[i-1];
void findTurnAroundTime(int processes[], int n,int bt[], int wt[], int tat[])
    for (int i = 0; i < n ; i++){
        tat[i] = bt[i] + wt[i];
void findavgTime( int processes[], int n, int bt[]) //Function to calculate average time
   int wt[n], tat[n], total_wt = 0, total_tat = 0;
   findWaitingTime(processes, n, bt, wt);
   findTurnAroundTime(processes, n, bt, wt, tat);
   cout << "Processes "<< " Burst time "<< " Waiting time " << " Turn around time\n";</pre>
   for (int i=0; i<n; i++)
       total_wt = total_wt + wt[i];
       total_tat = total_tat + tat[i];
       cout << " " << i+1 << "\t\t" << bt[i] <<"\t "<< wt[i] <<"\t\t " << tat[i] <<endl;</pre>
   cout << "Average waiting time = "<< (float)total_wt / (float)n;</pre>
   cout << "\nAverage turn around time = "<< (float)total_tat / (float)n;</pre>
int main()
    int processes[] = { 1, 2, 3};
    int n = sizeof processes / sizeof processes[0];
    int burst_time[] = {10, 5, 8};
    findavgTime(processes, n, burst_time);
    return 0;
```

Output

```
        Processes
        Burst time
        Waiting time
        Turn around time

        1
        10
        0
        10

        2
        5
        10
        15

        3
        8
        15
        23

        Average waiting time = 8.33333
        8
        15
        23
```