```
#include <stdio.h>
struct Process {
  int id;
             // Process ID
  int arrival_time;// Arrival time of the process
  int burst_time; // Burst time of the process
  int waiting_time;// Waiting time of the process
  int turnaround_time; // Turnaround time of the process
};
void calculateTimes(struct Process processes[], int n) {
  int total_waiting_time = 0;
  int total_turnaround_time = 0;
  processes[0].waiting_time = 0;
  processes[0].turnaround_time = processes[0].burst_time;
  total_waiting_time = processes[0].waiting_time;
  total_turnaround_time = processes[0].turnaround_time;
  for (int i = 1; i < n; i++) {
    processes[i].waiting_time = processes[i - 1].waiting_time + processes[i - 1].burst_time;
    processes[i].turnaround_time = processes[i].waiting_time + processes[i].burst_time;
    total_waiting_time += processes[i].waiting_time;
    total_turnaround_time += processes[i].turnaround_time;
  }
```

double avg_waiting_time = (double)total_waiting_time / n;

double avg_turnaround_time = (double)total_turnaround_time / n;

```
printf("Process\tArrival Time\tBurst Time\tWaiting Time\tTurnaround Time\n");
  for (int i = 0; i < n; i++) {
    printf("%d\t%d\t\t%d\t\t%d\n", processes[i].id, processes[i].arrival_time,
processes[i].burst_time,
        processes[i].waiting_time, processes[i].turnaround_time);
  }
  printf("\nAverage Waiting Time: %.2f\n", avg_waiting_time);
  printf("Average Turnaround Time: %.2f\n", avg_turnaround_time);
}
int main() {
  int n;
  printf("Enter the number of processes: ");
  scanf("%d", &n);
  struct Process processes[n];
  printf("Enter arrival time and burst time for each process:\n");
  for (int i = 0; i < n; i++) {
    processes[i].id = i + 1;
    printf("Process %d:\n", processes[i].id);
    printf("Arrival Time: ");
    scanf("%d", &processes[i].arrival_time);
    printf("Burst Time: ");
    scanf("%d", &processes[i].burst_time);
  }
  calculateTimes(processes, n);
```

```
return 0;
```

}

```
Enter the number of processes: 2
Enter the number of processes: 2
Forecas 1:
Arrival Time: 3
Burst Time: 4
Process 2:
Arrival Time: 3
Burst Time: 6
Burst Time: 8
Burst Time: 9
Torcess Arrival Time: 8
1 3 4 0 10

Average Waiting Time: 7.00

Process exited after 9.25 seconds with return value 0

Process wited after 9.25 seconds with return value 0

Process wited after 9.25 seconds with return value 0

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Process wited after 9.25 seconds with return value 0

Process wited after 9.25 seconds with return value 0

Process wited after 9.2
```