main.c

Share Run

```c
#include <stdio.h>
int main() {
    int n, i, bt[10], wt = 0, tat = 0;

    printf("Enter number of processes: ");
    scanf("%d", &n);

    printf("Enter burst times:\n");
    for (i = 0; i < n; i++) scanf("%d", &bt[i]);

    printf("\nProcess\tBurst Time\tWaiting Time\tTurnaround Time\n");
    for (i = 0; i < n; i++) {
        printf("%d\t%d\t\t%d\t\t%d\n", i + 1, bt[i], wt, wt + bt[i]);
        tat += wt + bt[i];
        wt += bt[i];
    }
    printf("\nAverage Waiting Time: %.2f\n", (float)(tat - wt) / n);
    printf("Average Turnaround Time: %.2f\n", (float)tat / n);

    return 0;
}
```

Output

Clear

```
Enter number of processes: 3
Enter burst times:
2 3 5

Process Burst Time  Waiting Time    Turnaround Time
1   2       0       2
2   3       2       5
3   5       5       10

Average Waiting Time: 2.33
Average Turnaround Time: 5.67


=== Code Execution Successful ===
```

main.c

Share Run

```c
#include <stdio.h>
int main() {
    int n, i, j, temp, bt[10], wt[10] = {0}, tat[10];
    float avg_wt = 0, avg_tat = 0;
    printf("Enter number of processes: ");
    scanf("%d", &n);
    printf("Enter burst times:\n");
    for (i = 0; i < n; i++) scanf("%d", &bt[i]);
    for (i = 0; i < n - 1; i++) {
        for (j = i + 1; j < n; j++) {
            if (bt[i] > bt[j]) {
                temp = bt[i];
                bt[i] = bt[j];
                bt[j] = temp;
            }
        }
    }
    for (i = 1; i < n; i++) wt[i] = wt[i - 1] + bt[i - 1];
    for (i = 0; i < n; i++) {
        tat[i] = wt[i] + bt[i];
        avg_wt += wt[i];
        avg_tat += tat[i];
    }

    printf("\nProcess\tBurst Time\tWaiting Time\tTurnaround Time\n");
    for (i = 0; i < n; i++) {
        printf("%d\t%d\t\t%d\t\t%d\n", i + 1, bt[i], wt[i], tat[i]);
    }
    printf("\nAverage Waiting Time: %.2f\n", avg_wt / n);
    printf("Average Turnaround Time: %.2f\n", avg_tat / n);
    return 0;
}
```

Output

Clear

```
Enter number of processes: 2
Enter burst times:
2 3

Process Burst Time  Waiting Time    Turnaround Time
1   2       0       2
2   3       2       5

Average Waiting Time: 1.00
Average Turnaround Time: 3.50


=== Code Execution Successful ===
```