```
#include<stdio.h>
#include<stdlib.h>
#include<string.h>

void sort(int bt[], char name[][50], int n) {
    int temp_bt;
    char temp_name[50];
    int i, j;
    for (i = 0; i < n - 1; i++) {
        for (j = 0; j < n - i - 1; j++) {
            if (bt[j] > bt[j + 1]) {
                temp_bt = bt[j];
                bt[j] = bt[j + 1];
                bt[j + 1] = temp_bt;


                for (int k = 0; k < 50; k++) {
                    temp_name[k] = name[j][k];
                    name[j][k] = name[j + 1][k];
                    name[j + 1][k] = temp_name[k];
                }
            }
        }
    }
}

int main() {
    int i, bt[50], wt[50], tt[50], n;
    char name[50][50];
    float wt_avg = 0, tt_avg = 0;

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

    for (i = 0; i < n; i++) {
        printf("Enter the %d Process Name: ", i + 1);
        scanf("%s", name[i]);
        printf("Enter the %d Process Burst time: ", i + 1);
        scanf("%d", &bt[i]);
    }

    sort(bt, name, n);

    wt[0] = 0;
    tt[0] = bt[0];

    for (i = 1; i < n; i++) {
        wt[i] = bt[i - 1] + wt[i - 1];
        tt[i] = wt[i] + bt[i];
    }

    for (i = 0; i < n; i++) {
        wt_avg += wt[i];
        tt_avg += tt[i];
    }

    wt_avg /= n;
    tt_avg /= n;

    printf("\nProcess\tName\t\tBurst Time\tWaiting Time\tTurnaround Time\n");
    for (i = 0; i < n; i++) {
        printf("%d\t%s\t\t%d\t\t%d\t\t%d\n", i + 1, name[i], bt[i], wt[i],
tt[i]);
    }
```

```
    printf("\nAverage Waiting Time: %.2f\n", wt_avg);
    printf("Average Turnaround Time: %.2f\n", tt_avg);

    return 0;
}
```

```
Enter the number of processes: 2
Enter the 1 Process Name: a
Enter the 1 Process Burst time: 2
Enter the 2 Process Name: b
Enter the 2 Process Burst time: 4

Process Name            Burst Time      Waiting Time    Turnaround Time
1       a               2               0               2
2       b               4               2               6
```