Program

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

void sort(int bt[], int n, int pid[], char pname[])
{
    int temp;
    for (int i=0;i<n-1;i++)
    {
        for (int j=0;j<n-i-1;j++)
        {
            if (bt[j]>bt[j+1])
            {

                temp = bt[j];
                bt[j] = bt[j+1];
                bt[j+1] = temp;


                temp = pid[j];
                pid[j] = pid[j+1];
                pid[j+1] = temp;


                char tname = pname[j];
                pname[j] = pname[j+1];
                pname[j+1] = tname;
            }
        }
    }
}

void calculateTimes(int bt[], int n, int wt[], int tt[])
{
    wt[0] = 0;
    tt[0] = bt[0];

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

void printResults(int pid[], char pname[], int bt[], int wt[], int tt[], int n)
{
    printf("\nProcess ID | Process Name | Burst Time | Waiting Time | Turnaround Time\n");
    for (int i = 0; i < n; i++)
    {
        printf("%d      | %c        | %d       | %d         | %d\n", pid[i], pname[i], bt[i], wt[i], tt[i]);
    }
}

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

```c
    int pid[n];
    char pname[n];
    int bt[n];
    int wt[n];
    int tt[n];


    for(int i = 0; i < n; i++)
    {
        printf("Enter the name of process %d: ", i+1);
        scanf("%c",&pname[i]);
        printf("Enter the burst time of process %d: ", i+1);
        scanf("%d",&bt[i]);
        pid[i] =i+1;
    }


    sort(bt,n,pid,pname);
    calculateTimes(bt,n,wt,tt);
    printResults(pid,pname,bt,wt,tt,n);

    float avg_wt = 0, avg_tt = 0;
    for (int i = 0; i < n; i++)
    {
        avg_wt += wt[i];
        avg_tt += tt[i];
    }
    avg_wt /= n;
    avg_tt /= n;

    printf("\nAverage Waiting Time: %.2f", avg_wt);
    printf("\nAverage Turnaround Time: %.2f", avg_tt);

    return 0;}
```

Output