

```

#include<stdio.h>
#include<string.h>
int main()
{
    char pn[10][10],t[10];
    int
arr[10],bur[10],star[10],finish[10],tat[10],wt[10],i,j,n,temp;
    int totwt=0,tottat=0;
    printf("Enter the number of processes:");
    scanf("%d",&n);
    for(i=0; i<n; i++)
    {
        printf("Enter the %d ProcessName, Arrival Time& Burst
Time:",i+1 );
        scanf("%s%d%d",pn[i],&arr[i],&bur[i]);
    }
    for(i=0; i<n; i++)
    {
        for(j=0; j<n; j++)
        {
            if(arr[i]<arr[j])
            {
                temp=arr[i];
                arr[i]=arr[j];
                arr[j]=temp;
                temp=bur[i];
                bur[i]=bur[j];
                bur[j]=temp;
                strcpy(t,pn[i]);
                strcpy(pn[i],pn[j]);
                strcpy(pn[j],t);
            }

        }
    }
    for(i=0; i<n; i++)
    {
        if(i==0)
            star[i]=arr[i];
        else
            star[i]=finish[i-1];
        wt[i]=star[i]-arr[i];
        finish[i]=star[i]+bur[i];
        tat[i]=finish[i]-arr[i];
    }
    printf("\nPName Arrtime Burtme WaitTime Start TAT
Finish");
    for(i=0; i<n; i++)
    {

printf("\n%s\t%3d\t%3d\t%3d\t%3d\t%6d\t%6d",pn[i],arr
[i],bur[i],wt[i],star[i],tat[i],finish[i]);
        totwt+=wt[i];
        tottat+=tat[i];
    }
    printf("\nAverage Waiting time:%f",(float)totwt/n);
    printf("\nAverage Turn Around Time:%f",(float)tottat/n);
    return 0;
}

```

Enter the number of processes:4

Enter the ProcessName, Arrival Time& Burst Time:p0 0 6

Enter the ProcessName, Arrival Time& Burst Time:p1 1 8

Enter the ProcessName, Arrival Time& Burst Time:p2 2 10

Enter the ProcessName, Arrival Time& Burst Time:p3 3 11

PName	Arrtime	Burtime	WaitTime	Start	TAT	Finish
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p0	0	6	0	0	6	6
----	---	---	---	---	---	---

p1	1	8	5	6	13	14
----	---	---	---	---	----	----

p2	2	10	12	14	22	24
----	---	----	----	----	----	----

p3	3	11	21	24	32	35
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Average Waiting time:9.500000

Average Turn Around Time:18.250000

...Program finished with exit code 0

Press ENTER to exit console.