

Program:

```
#include <stdio.h>
int main()
{
    int at[10] = {0}, bt[10] = {0}, ct[10] = {0}, tat[10] = {0}, wt[10] = {0};
    int n;
    float totaltat=0, totalwt=0;

    printf("Enter no of processes");
    scanf("%d", &n);

    printf("Enter at and bt for each \n\n");

    for(int i=0; i<n; i++)
    {
        printf("Enter arrival time for each", i+1);
        scanf("%d", &at[i]);

        printf("Enter bust time for each", i+1);
        scanf("%d", &bt[i]);

        printf("\n");
    }

    int sum=at[0];
    for(int j=0; j<n; j++)
    {
        sum=sum+bt[j];
        ct[j]=sum;
    }

    for(int k=0; k<n; k++)
    {
        tat[k]=ct[k]-at[k];
        totaltat=totaltat+tat[k];
    }

    for(int k=0; k<n; k++)
    {
        wt[k]=tat[k]-bt[k];
        totalwt=totalwt+wt[k];
    }

    printf("solution: \n\n");
    printf("P\t AT\t BT\t CT\t TAT\t WT\t\n\n");

    for(int i=0; i<n; i++)
```

```

{
    printf("p%d\t %d\t %d\t %d\t %d\t %d\n",i+n,at[i],bt[i],ct[i],tat[i],wt[i]);

}
printf("\n\n Average time = %f\n",totaltat/n);
printf("\n\n Weight time = %f\n",totalwt/n);

return 0;
}

```

Output:

Enter no of processes 4
Enter at and bt for each

Enter arrival time for each 0
Enter bust time for each 2

Enter arrival time for each 1
Enter bust time for each 2

Enter arrival time for each 5
Enter bust time for each 3

Enter arrival time for each 6
Enter bust time for each 4

solution:

P	AT	BT	CT	TAT	WT
p4	0	2	2	2	0
p5	1	2	4	3	1
p6	5	3	7	2	-1
p7	6	4	11	5	1

Average time = 3.000000

Weight time = 0.250000