

main.c

Share

Run

```
1 #include <stdio.h>
2 int main() {
3     int n, i, bt[10], wt = 0, tat = 0;
4
5     printf("Enter number of processes: ");
6     scanf("%d", &n);
7
8     printf("Enter burst times:\n");
9     for (i = 0; i < n; i++) scanf("%d", &bt[i]);
10
11     printf("\nProcess\tBurst Time\tWaiting Time\tTurnaround Time\n");
12     for (i = 0; i < n; i++) {
13         printf("%d\t%d\t\t%d\t\t%d\n", i + 1, bt[i], wt, wt + bt[i]);
14         tat += wt + bt[i];
15         wt += bt[i];
16     }
17     printf("\nAverage Waiting Time: %.2f\n", (float)(tat - wt) / n);
18     printf("Average Turnaround Time: %.2f\n", (float)tat / n);
19
20     return 0;
21 }
22
23
```

Output

Clear

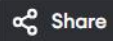
Enter number of processes: 3
Enter burst times:
2 3 5

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



Run

Output

Clear

```
1 #include <stdio.h>
2 int main() {
3     int n, i, j, temp, bt[10], wt[10] = {0}, tat[10];
4     float avg_wt = 0, avg_tat = 0;
5     printf("Enter number of processes: ");
6     scanf("%d", &n);
7     printf("Enter burst times:\n");
8     for (i = 0; i < n; i++) scanf("%d", &bt[i]);
9     for (i = 0; i < n - 1; i++) {
10         for (j = i + 1; j < n; j++) {
11             if (bt[i] > bt[j]) {
12                 temp = bt[i];
13                 bt[i] = bt[j];
14                 bt[j] = temp;
15             }
16         }
17     }
18     for (i = 1; i < n; i++) wt[i] = wt[i - 1] + bt[i - 1];
19     for (i = 0; i < n; i++) {
20         tat[i] = wt[i] + bt[i];
21         avg_wt += wt[i];
22         avg_tat += tat[i];
23     }
24
25     printf("\nProcess\tBurst Time\tWaiting Time\tTurnaround Time\n");
26     for (i = 0; i < n; i++) {
27         printf("%d\t%d\t\t%d\t\t%d\n", i + 1, bt[i], wt[i], tat[i]);
28     }
29     printf("\nAverage Waiting Time: %.2f\n", avg_wt / n);
30     printf("Average Turnaround Time: %.2f\n", avg_tat / n);
31     return 0;
32 }
```

Enter number of processes: 2

Enter burst times:

2 3

Process	Burst Time	Waiting Time	Turnaround Time
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1	2	0	2
---	---	---	---

2	3	2	5
---	---	---	---

Average Waiting Time: 1.00

Average Turnaround Time: 3.50

=== Code Execution Successful ===