```
() (5 \alpha_0^0 Share Run
 1 #include <stdio.h>
                                                                                                                    Enter number of processes: 6
                                                                                                                   Enter burst time for process 1: 2
Enter burst time for process 2: 36
  2 #include <stdlib.h>
  3 - typedef struct {
  4 int pid:
                                                                                                                    Enter burst time for process 3:
         int bt;
       int wt;
int tat;
                                                                                                                    Enter burst time for process 4: 9
                                                                                                                   Enter burst time for process 5: 7
8 } Process;
                                                                                                                    Enter burst time for process 6: 8
 9. int compare(const void *a, const void *b) {
                                                                                                                   PID Burst Time Waiting Time Turnaround Time
                                                                                                                   1 2
2 3
5 7
                                                                                                                            0
                                                                                                                                      2
10
       return ((Process *)a)->bt - ((Process *)b)->bt;}
11 - int main() {
                                                                                                                             5
12
20
28
                                                                                                                                         12
12
        int n:
                                                                                                                   3 8
         printf("Enter number of processes: "):
                                                                                                                                      20
13
                                                                                                                   6 8
                                                                                                                                       28
37
         scanf("%d", &n);
14
         Process proc[n];
        for (int i = 0; i < n; i++) {
                                                                                                                   Average Waiting Time: 11.17
         proc[i].pid = i + 1;
printf("Enter burst time for process %d: ", proc[i].pid);
                                                                                                                   Average Turnaround Time: 17.33
18
19
            scanf("%d", &proc[i].bt);}
20
         qsort(proc, n, sizeof(Process), compare);
                                                                                                                    === Code Execution Successful ===
         proc[0].wt = 0;
for (int i = 1; i < n; i++) {
21
22 +
          proc[i].wt = proc[i - 1].wt + proc[i - 1].bt;}
for (int i = 0; i < n; i++) {</pre>
23
24 -
25
           proc[i].tat = proc[i].bt + proc[i].wt; }
26
         printf("PID\tBurst Time\tWaiting Time\tTurnaround Time\n");
          int total_wt = 0, total_tat = 0;
27
         for (int i = 0; i < n; i++) {
28 -
           printf("%d\%d\tt%d\tt%d\n", proc[i].pid, proc[i].bt, proc[i].wt, proc[i].tat);
29
              total_wt += proc[i].wt;
         total_tat += proc[i].tat {}
printf("Average Waiting Time: %.2f\n", (float)total_wt / n);
printf("Average Turnaround Time: %.2f\n", (float)total_tat / n);
31
32
33
```

main.c

Output

```
mainta

1 stations extain th

2 stations extain th

3 star paid;

4 star menutar

5 star menutar

6 star menutar

7 star menutar

8 star menutar

9 star menutar

1 star menutar

2 star menut
```