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2 - struct priority scheduling { char process name;
   int burst time; int waiting time;
   int turn around time; int priority;
 5 };
 6 * int main() {
    int number_of_process; int total = 0;
   struct priority scheduling temp process; int ASCII number = 65;
   int position;
 9
10 float average waiting time; float average turnaround time;
11 printf("Enter the total number of Processes: "); scanf("%d", &
        number of process);
12 * struct priority scheduling process[number_of_process]; printf("\nPlease
        Enter the Burst Time and Priority of each process:\n"); for (int i =
        0; i < number of process; i++) {
   process[i].process_name = (char) ASCII_number;
13
14 printf("\nEnter the details of the process %c \n", process[i]
        .process name);
15 printf("Enter the burst time: "); scanf("%d", & process[i].burst_time);
        printf("Enter the priority: "); scanf("%d", & process[i].priority);
        ASCII number++; }
16 - for (int i = 0; i < number_of_process; i++) { position = i;
17 \cdot \text{ for (int } j = i + 1; j < \text{number of process; } j++)  {
18
   if (process[j].priority > process[position].priority) position = j; }
19 temp_process = process[i]; process[i] = process[position];
        process[position] = temp_process; } process[0].waiting_time = 0;
   for (int i = 1; i < number_of_process; i++) { process[i].waiting_time =</pre>
20
        0;
```

1 #include<stdio.h>

```
21 * for (int j = 0; j < i; j++) {
   process[i].waiting time += process[j].burst_time; } total += process[i]
       .waiting time; }
   average waiting time = (float) total / (float) number of process;
23
24
   total = 0:
   printf("\n\nProcess_name \t Burst Time \t Waiting Time \t Turnaround
       Time\n");
26 * printf(" ----
       --\n"); for (int i = 0; i < number of process; i++) {
27 process[i].turn_around_time = process[i].burst_time + process[i]
       .waiting time;
28
   printf("\t %c \t\t\t\t %d \t\t\t\t %d \t\t\t\t\d", process[i]
       .process_name, process[i].burst_time, process[i].waiting_time,
       process[i].turn around time);
29
   printf("\n-----
       ---- \n"); }
30
   average turnaround time = (float) total / (float) number of process;
   printf("\n\n Average Waiting Time : %f", average_waiting_time);
31
32
   printf("\n Average Turnaround Time: %f\n", average_turnaround_time);
33
   return 0;
34
```

```
Enter the total number of Processes: 4
Please Enter the Burst Time and Priority of each process:
Enter the details of the process A
Enter the burst time: 3
Enter the priority: 2
Enter the details of the process B
Enter the burst time: 7
Enter the priority: 5
Enter the details of the process C
Enter the burst time: 6
Enter the priority: 3
Enter the details of the process D
Enter the burst time: 9
Enter the priority: 4
```

Process_name	Burst Time		Turnaround Time
В	7	0	7
D	9	7	16
С	6	16	22
А	3	22	25

Average Waiting Time : 11.250000 Average Turnaround Time: 0.000000