```
C:\Users\amarn\Favorites\New\MVSearch\OS>gcc prio-pre.c

C:\Users\amarn\Favorites\New\MVSearch\OS>a
Priority Preemptive Scheduling
Enter the number of processes: 5
Enter the arrival time, burst time, and priority of each process
P1 : 0 3 3
P2 : 1 4 2
P3 : 2 6 4
P4 : 3 4 6
P5 : 5 2 10
 | P1 |1 P2 |2 P2 |3 P2 |4 P2 |5 P1 |6 P1 |7 P3 |8 P3 |9 P3 |10 P3 |11 P3 |12 P3 |13 P4 |14 P4 |15 P4 |16 P4 |17 P5 |18 P5 |19



Gantt Chart
-------------------------------------------------------------------
|   1   |   2   |   1   |   3   |   4   |   5   |
-------------------------------------------------------------------
0       1       5       7       13      17      19

Process AT BT CT TAT WT
  P1     0  3  7  4  7
  P2     1  4  5  0  4
  P3     2  6 13  5 11
  P4     3  4 17 10 14
  P5     5  2 19 12 14
Average waiting time = 6.20
Average turnaround time = 10.00

C:\Users\amarn\Favorites\New\MVSearch\OS>
```