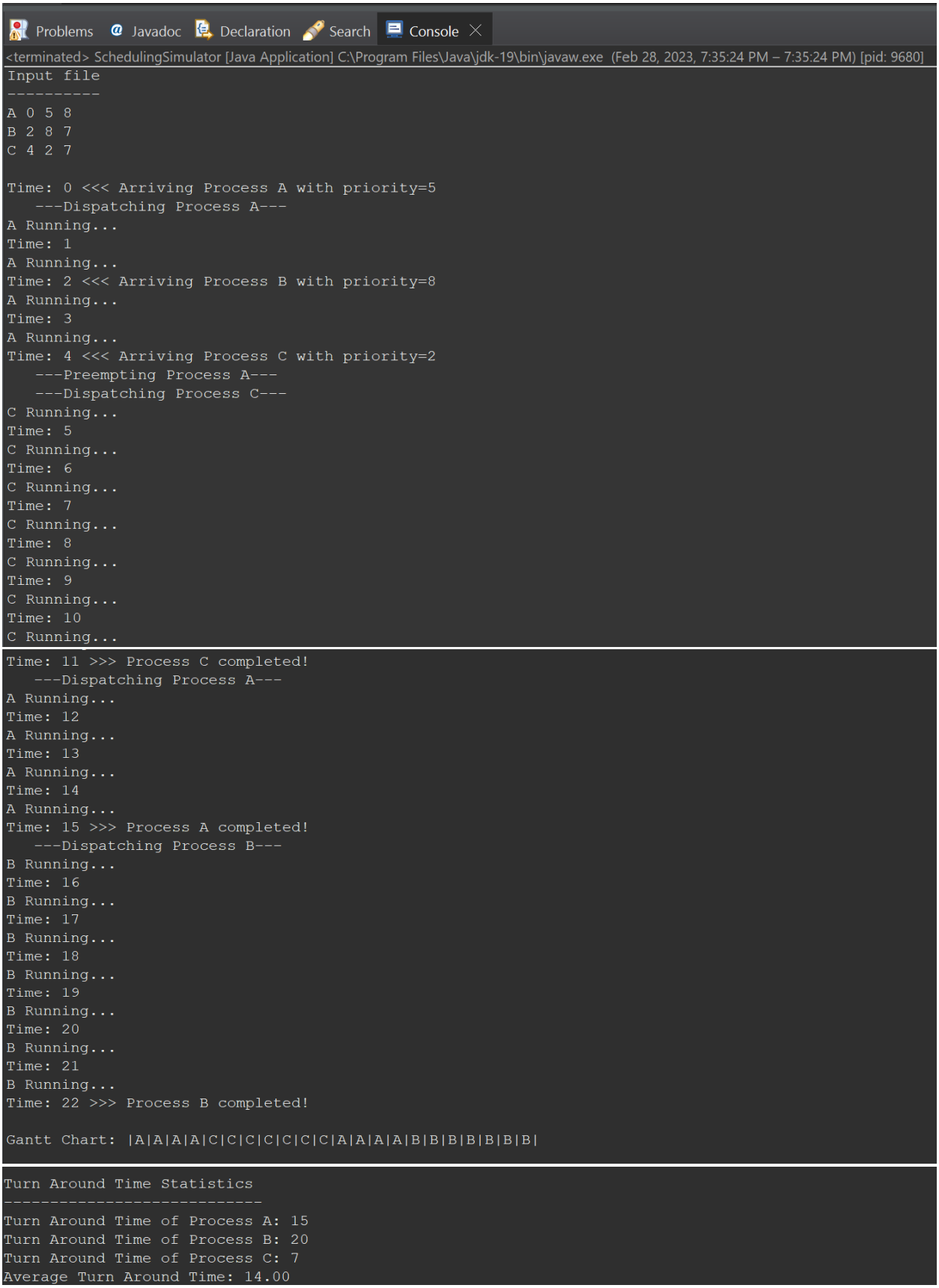
1. Preemptive Priority – without processes of equal priority – no Round Robin

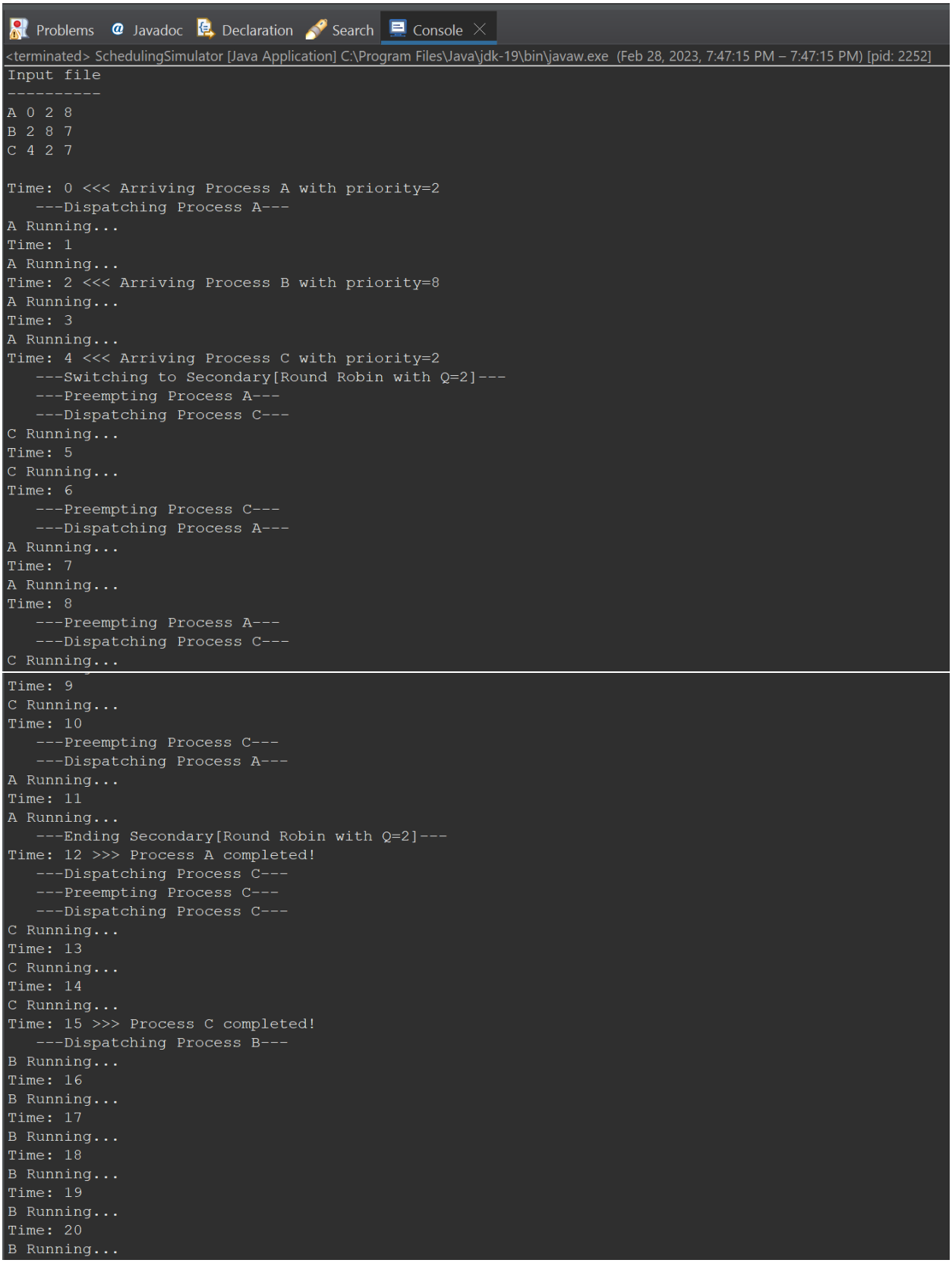


```
Problems  Javadoc  Declaration  Search  Console
<terminated> SchedulingSimulator [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe  (Feb 28, 2023, 7:35:24 PM – 7:35:24 PM) [pid: 9680]
Input file
----------
A 0 5 8
B 2 8 7
C 4 2 7

Time: 0 <<< Arriving Process A with priority=5
   ---Dispatching Process A---
A Running...
Time: 1
A Running...
Time: 2 <<< Arriving Process B with priority=8
A Running...
Time: 3
A Running...
Time: 4 <<< Arriving Process C with priority=2
   ---Preempting Process A---
   ---Dispatching Process C---
C Running...
Time: 5
C Running...
Time: 6
C Running...
Time: 7
C Running...
Time: 8
C Running...
Time: 9
C Running...
Time: 10
C Running...
Time: 11 >>> Process C completed!
   ---Dispatching Process A---
A Running...
Time: 12
A Running...
Time: 13
A Running...
Time: 14
A Running...
Time: 15 >>> Process A completed!
   ---Dispatching Process B---
B Running...
Time: 16
B Running...
Time: 17
B Running...
Time: 18
B Running...
Time: 19
B Running...
Time: 20
B Running...
Time: 21
B Running...
Time: 22 >>> Process B completed!

Gantt Chart: |A|A|A|A|C|C|C|C|C|C|C|A|A|A|A|B|B|B|B|B|B|B|
Turn Around Time Statistics
---------------------------
Turn Around Time of Process A: 15
Turn Around Time of Process B: 20
Turn Around Time of Process C: 7
Average Turn Around Time: 14.00
```

2. Preemptive priority with processes of equal priority – using Round Robbin, Q= 2(user can change this)



```
Time: 21
B Running...
Time: 22 >>> Process B completed!

Gantt Chart: |A|A|A|A|C|C|A|A|C|C|A|A|C|C|C|B|B|B|B|B|B|B|

Turn Around Time Statistics
---------------------------
Turn Around Time of Process A: 12
Turn Around Time of Process B: 20
Turn Around Time of Process C: 11
Average Turn Around Time: 14.33
```

This is how my input file looks like.