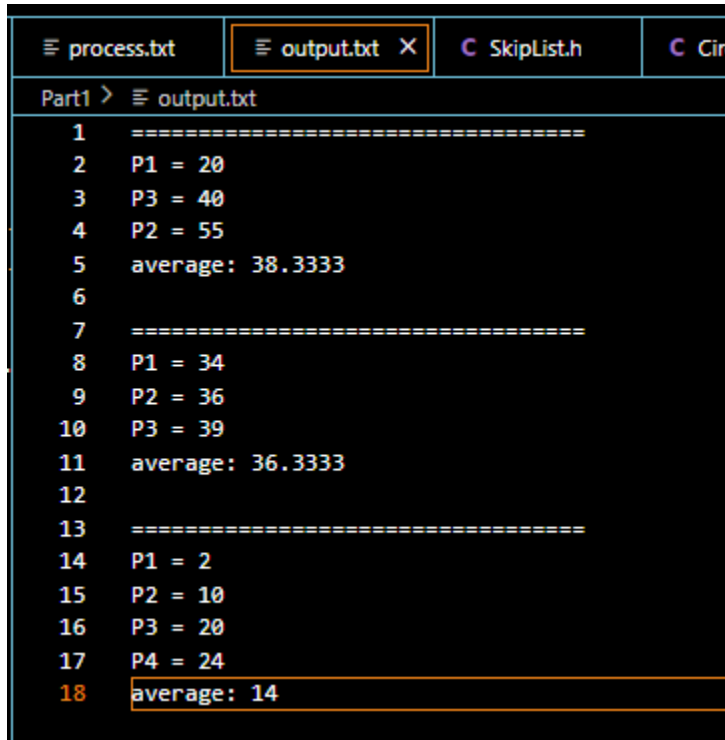


Assignment 1

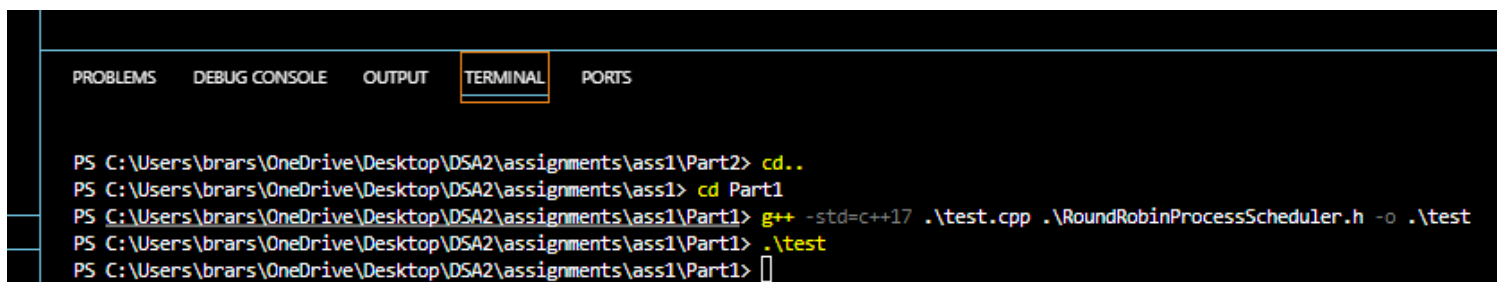
Part1 : Implementing Round Robin Process scheduler using circular linked List

- Results printed to the output text file



```
1 =====
2 P1 = 20
3 P3 = 40
4 P2 = 55
5 average: 38.3333
6
7 =====
8 P1 = 34
9 P2 = 36
10 P3 = 39
11 average: 36.3333
12
13 =====
14 P1 = 2
15 P2 = 10
16 P3 = 20
17 P4 = 24
18 average: 14
```

- The commands ran to execute it:



```
PROBLEMS  DEBUG CONSOLE  OUTPUT  TERMINAL  PORTS

PS C:\Users\brars\OneDrive\Desktop\DSA2\assignments\ass1\Part2> cd..
PS C:\Users\brars\OneDrive\Desktop\DSA2\assignments\ass1> cd Part1
PS C:\Users\brars\OneDrive\Desktop\DSA2\assignments\ass1\Part1> g++ -std=c++17 .\test.cpp .\RoundRobinProcessScheduler.h -o .\test
PS C:\Users\brars\OneDrive\Desktop\DSA2\assignments\ass1\Part1> .\test
PS C:\Users\brars\OneDrive\Desktop\DSA2\assignments\ass1\Part1> 
```

Part2 : Implementing search, delete and rescale method using skip linked List

- Here is the sample execution of code:

```
PS C:\Users\brars\OneDrive\Desktop\DSA2\assignments\ass1\Part1> cd..
PS C:\Users\brars\OneDrive\Desktop\DSA2\assignments\ass1> cd Part2
PS C:\Users\brars\OneDrive\Desktop\DSA2\assignments\ass1\Part2> g++ -std=c++17 .\Node.h .\test.cpp .\SkipList.h -o .\test
PS C:\Users\brars\OneDrive\Desktop\DSA2\assignments\ass1\Part2> .\test
Skip list with maximum allowed level 3 is:
Level 0: 1->5->7->11->13->19->31->35->37->311->313->319 .
Level 1: 1->5->7->11->13->19->35->311->313->319 .
Level 2: 1->5->7->11->35->311->319 .
Level 3: 1->5->35->311 .
The element 7 is there in list , (before deletion)? true
Value 7 deleted.
Value 11 deleted.
Value 319 deleted.

The element 7 is there in list, (after deletion)? false
Level 0: 1->5->13->19->31->35->37->311->313 .
Level 1: 1->5->13->19->35->311->313 .
Level 2: 1->5->35->311 .
Level 3: 1->5->35->311 .

Rescaling the list to new max size: 5
Level 0: 1->5->13->19->31->35->37->311->313 .
Level 1: 1->13->31 .
Level 2: 1->31 .
Level 3: 31 .
Level 4: 31 .
PS C:\Users\brars\OneDrive\Desktop\DSA2\assignments\ass1\Part2> |
```

Kindly use these flags to get results (if you have your way of executing it, please ignore this):

```
g++ -std=c++17 .\Node.h .\test.cpp .\SkipList.h -o .\test
```

```
g++ -std=c++17 .\test.cpp .\RoundRobinProcessScheduler.h -o .\test
```