Assignment #7 by Luke O'Brien
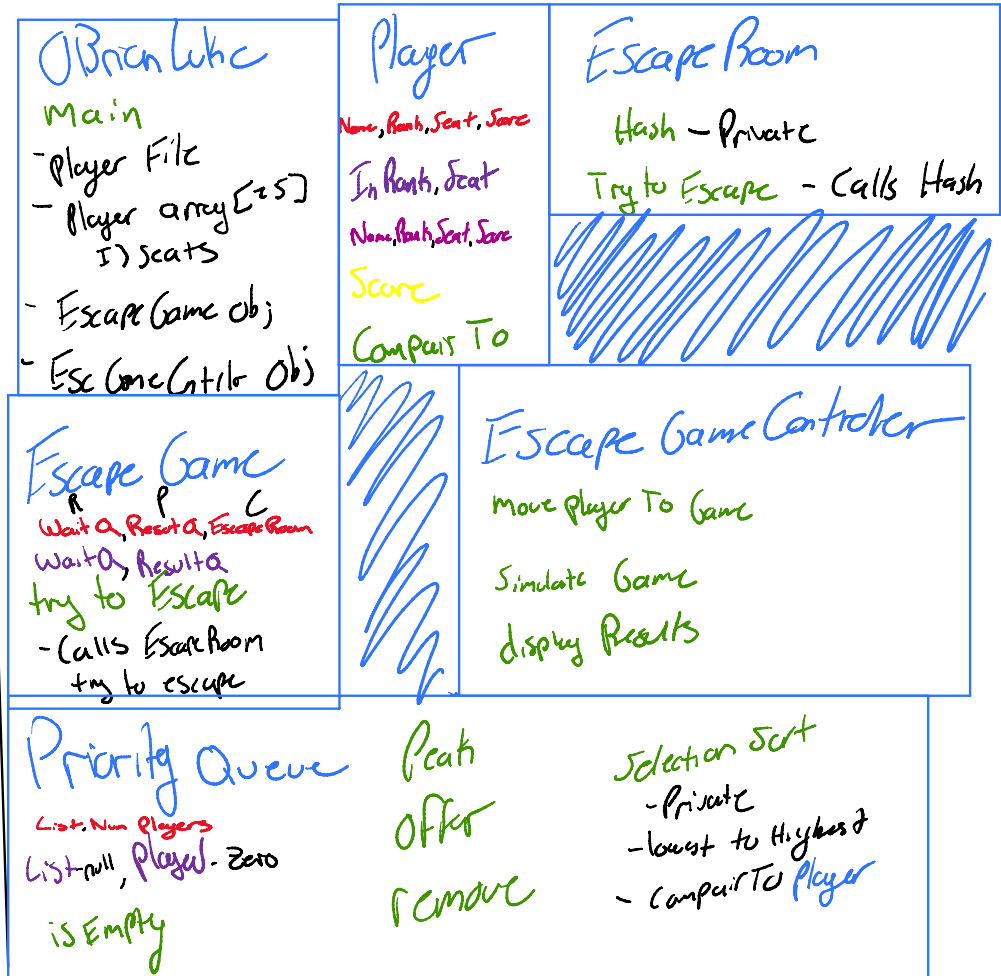
Wednesday, April 8, 2020   1:05 AM

CS 1450

Problem:

There are a bunch of Players That need to be Seated appropriatly, Then Placed into The game. Thay then are ranked & must be Orderd & Printed out

What I don't know

- The Hash Function

- Comparto with Selection Sort Class

🟪 Constructer   🟥 getter   🟨 setter

O'Brien Luke

Main
- Player File
- Player array [25]
  I) Seats
- Escape Game obj
- Esc GameCntrlr Obj

Player

Name, Rank, Seat, Score

In Rank, Seat

Name, Rank, Seat, Score

Score

Compair To

Escape Room

Hash - Private

Try to Escape - Calls Hash

Escape Game

W   P   C
Wait Q, Resrt Q, Escape Room
Wait Q, Result Q
try to Escape
- Calls Escape Room try to escape

Escape Game Controller

Move Player To Game

Simulate Game

display Results

Priority Queue

List, Num Players

List-null, Played - Zero

is Empty

Peak

Offer

remove

Selection Sort
- Private
- lowest to Highest
- Compair To Player

Main:

```
Array seats [25]
Scanner (PlayerFile)
While(scanner is not empty)
{
        Fill the array with people in the right seats
}
EscapeGame  escGm = new EscapeGame
EscapeGameController escGmCont = new EscapeGameController

For(seats array)
{
        Move players into escGm obj
}

escGmCont.movePlayer //prints out as a player moves (in Class)

Sysout print(Printout headder)
escGmCont.simulateGame //Prints out the score as it goes (in class)

escGmCont.displayResults

//End
```

What I have Learned

- I learned that, even Though we are Implementing Comparable, its not to use Collections.Sort. but Rather to call CompareTo directly.

- Looked at FAQ & Answered most of my Questions about Hash()

Notes to Self

- Make Sure to avoid null Pointers when dealing with PriorityQ

- Seats is a player type

- EscGm is Just a easy Pass through

- Selection Sort is Private