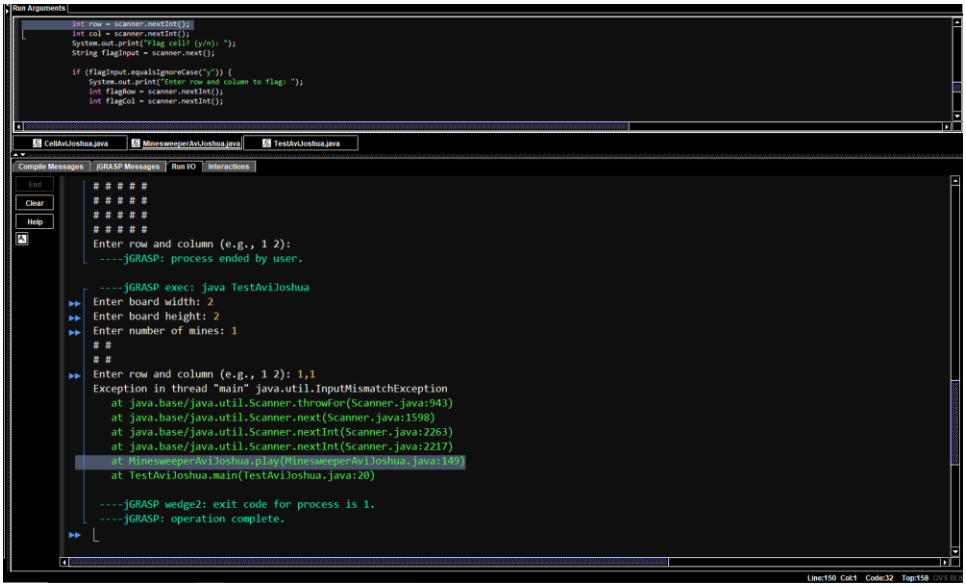
Psuedocode

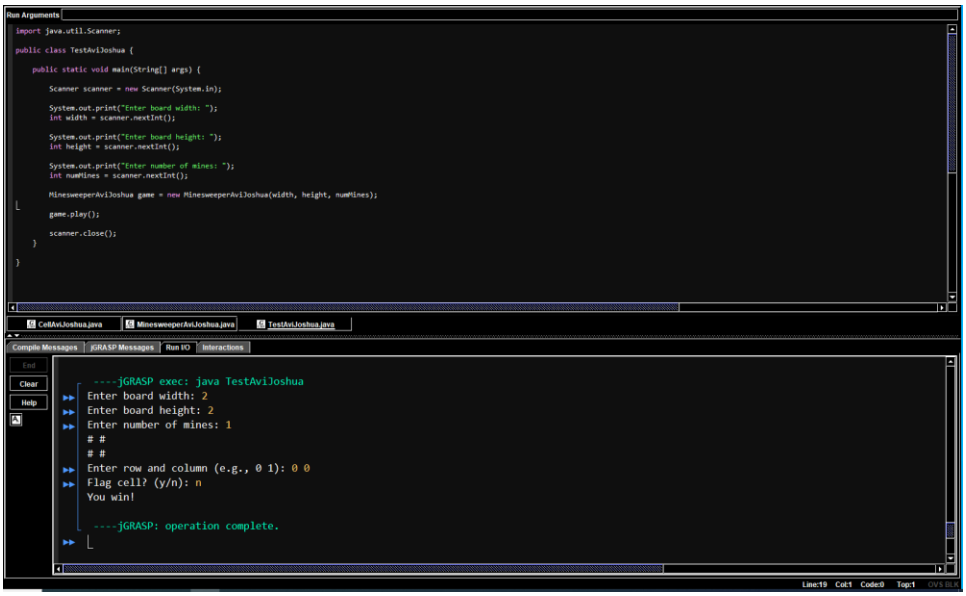
```
Class TestAviJoshua
        main();
        Game = newMinesweepergame(scanner);
        Game.play();


Class MinesweeperAviJoshua
MinesweeperAviJoshua(scanner);
play();
While game not over()
PrintBoard();
RevealCell(userInput);
printboard();
getUsermove();
RevealCell(input);
Gameover();


Class CellAviJoshua
//cell representation things
```

ERRORS:

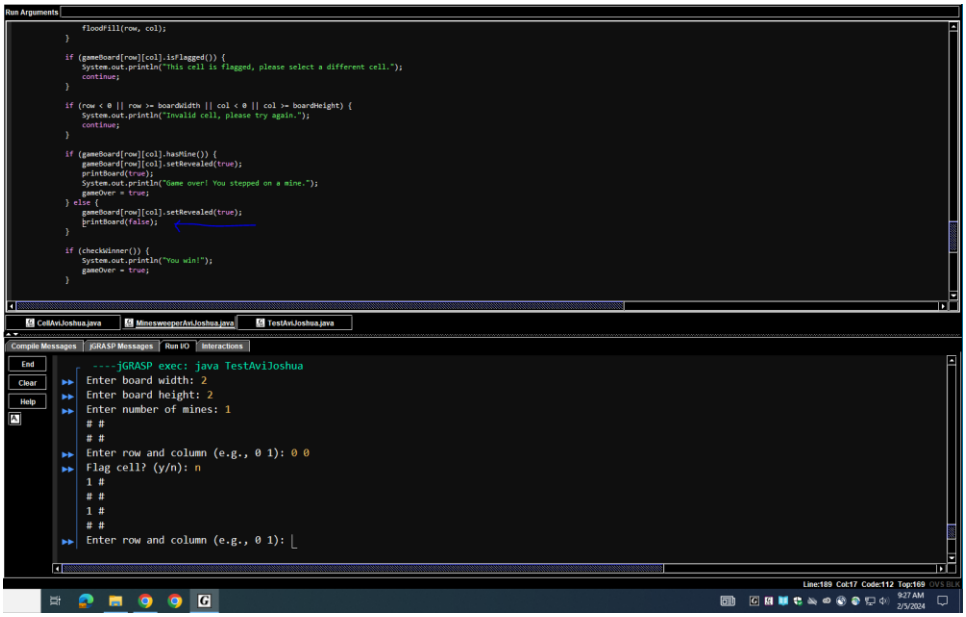
Error in Scanner, not taking proper values throwing a InputMismatchException



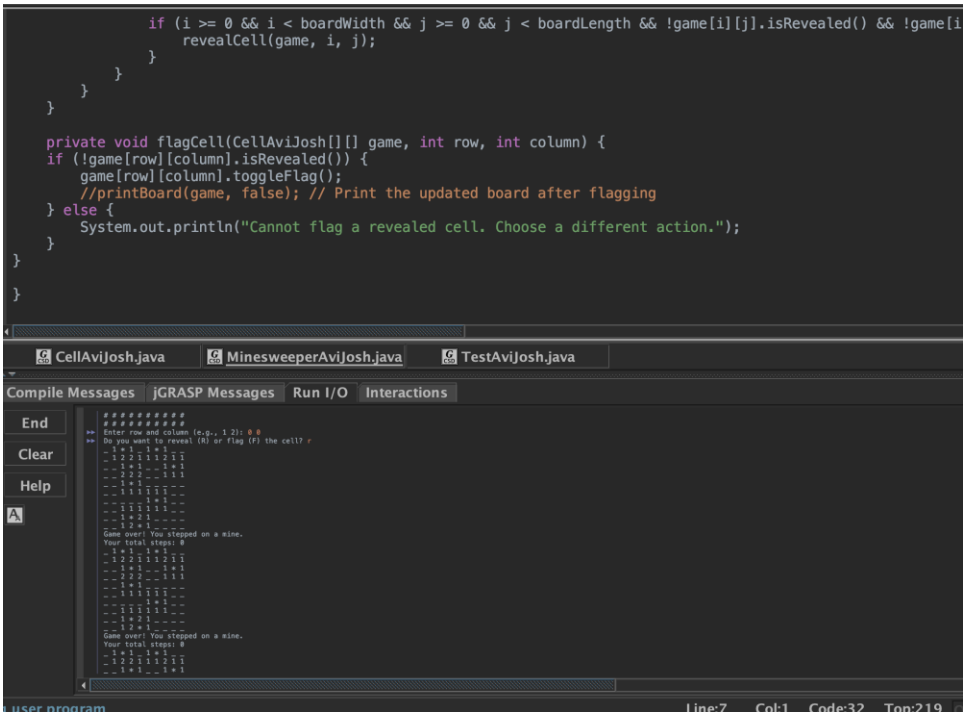
Incorrect Logic in CheckWinner(), always returning as I win



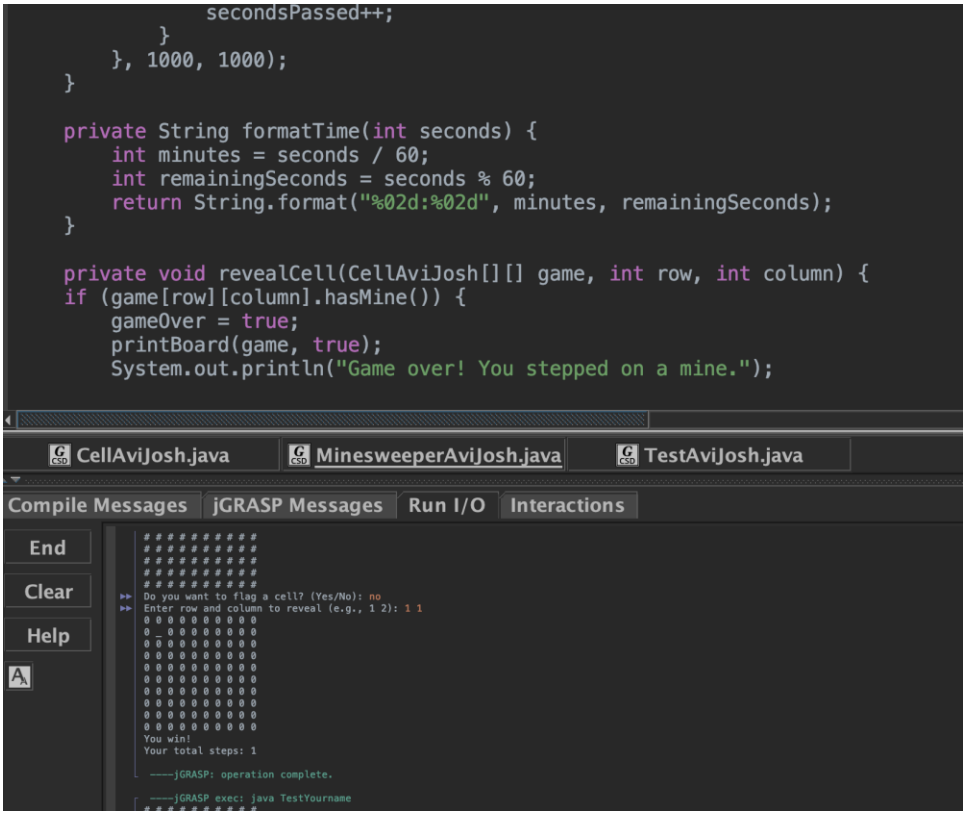
Calling printBoard incorrectly, causes board to be printed twice and incorrectly displayed



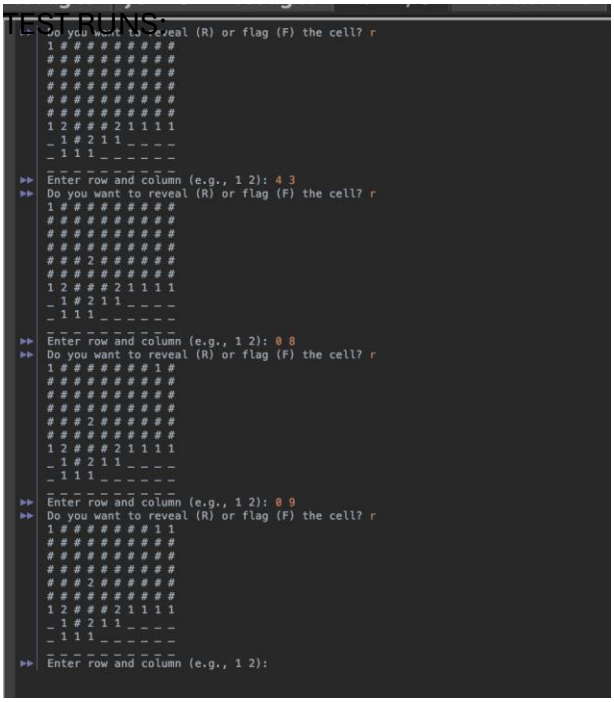
Incorrect Printing when gameOver;

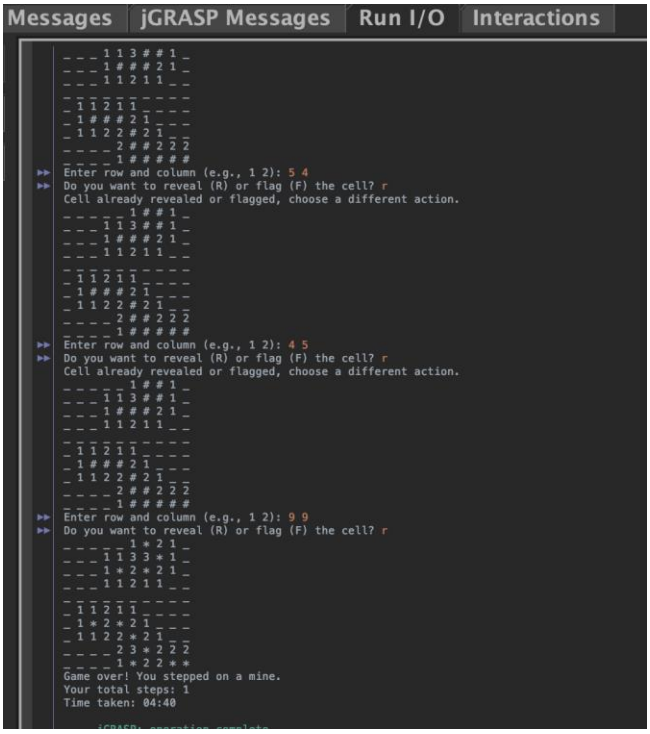


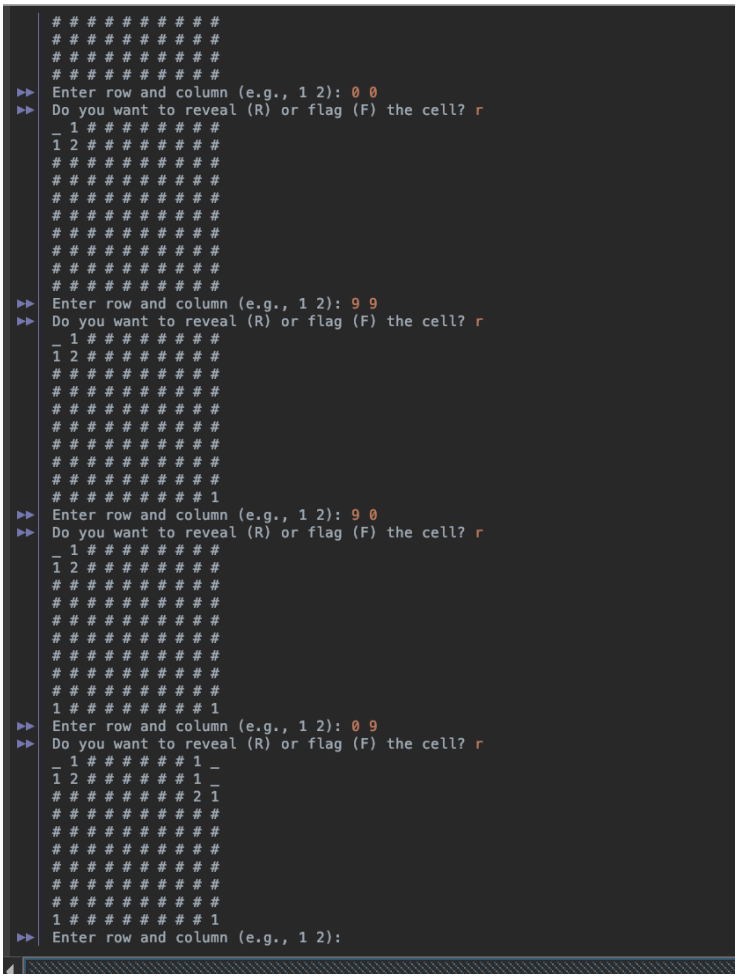
Incorrect Cell Assignment; everything put as 0.



TEST RUNS:


Do you want to reveal (R) or flag (F) the cell? r
1 # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
1 2 # # # 2 1 1 1 1
_ 1 # 2 1 1 _ _ _ _
_ 1 1 1 _ _ _ _ _ _
_ _ _ _ _ _ _ _ _ _
Enter row and column (e.g., 1 2): 4 3
Do you want to reveal (R) or flag (F) the cell? r
1 # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
2 # # # # #
# # # # # # # # # #
1 2 # # # 2 1 1 1 1
_ 1 # 2 1 1 _ _ _ _
_ 1 1 1 _ _ _ _ _ _
_ _ _ _ _ _ _ _ _ _
Enter row and column (e.g., 1 2): 0 8
Do you want to reveal (R) or flag (F) the cell? r
1 # # # # # # # 1 #
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
2 # # # # #
# # # # # # # # # #
1 2 # # # 2 1 1 1 1
_ 1 # 2 1 1 _ _ _ _
_ 1 1 1 _ _ _ _ _ _
_ _ _ _ _ _ _ _ _ _
Enter row and column (e.g., 1 2): 0 9
Do you want to reveal (R) or flag (F) the cell? r
1 # # # # # # 1 1
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
2 # # # # #
# # # # # # # # # #
1 2 # # # 2 1 1 1 1
_ 1 # 2 1 1 _ _ _ _
_ 1 1 1 _ _ _ _ _ _
_ _ _ _ _ _ _ _ _ _
Enter row and column (e.g., 1 2):


Messages
jGRASP Messages
Run I/O
Interactions
Enter row and column (e.g., 1 2): 5 4
Do you want to reveal (R) or flag (F) the cell? r
Cell already revealed or flagged, choose a different action.
Enter row and column (e.g., 1 2): 4 5
Do you want to reveal (R) or flag (F) the cell? r
Cell already revealed or flagged, choose a different action.
Enter row and column (e.g., 1 2): 9 9
Do you want to reveal (R) or flag (F) the cell? r
Game over! You stepped on a mine.
Your total steps: 1
Time taken: 04:40


Enter row and column (e.g., 1 2): 0 0
Do you want to reveal (R) or flag (F) the cell? r
Enter row and column (e.g., 1 2): 9 9
Do you want to reveal (R) or flag (F) the cell? r
Enter row and column (e.g., 1 2): 9 0
Do you want to reveal (R) or flag (F) the cell? r
Enter row and column (e.g., 1 2): 0 9
Do you want to reveal (R) or flag (F) the cell? r
Enter row and column (e.g., 1 2):

```
  ----jGRASP: process ended by user.

  ----jGRASP exec: java TestAviJosh
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
Enter row and column (e.g., 1 2): 5 5
Do you want to reveal (R) or flag (F) the cell? r
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
# # # # # 1 # # # #
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
Enter row and column (e.g., 1 2): 0 0
Do you want to reveal (R) or flag (F) the cell? r
* 2 2 * 1 _ _ _ 1 1
1 2 * 3 2 1 _ _ 1 *
_ 1 1 2 * 1 _ _ 1 1
1 1 _ 1 1 1 _ _ _ _
* 1 _ _ _ _ _ _ _ _
1 1 _ _ _ 1 1 1 _ _
_ _ 1 1 1 * 1 _ _
_ _ 1 * 1 1 1 _ _
_ _ 1 1 1 _ 1 1 1 _
_ _ _ _ _ _ 1 * 1 _
Game over! You stepped on a mine.
Your total steps: 1
Time taken: 00:05

  ----jGRASP: operation complete.
```

```
  ----jGRASP exec: java TestAviJosh
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
Enter row and column (e.g., 1 2): 10 10
Invalid input, choose a different cell.
Enter row and column (e.g., 1 2): 2 2
Do you want to reveal (R) or flag (F) the cell? f
# # # # # # # # # #
# # # # # # # # # #
# # F # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
# # # # # # # # # #
Enter row and column (e.g., 1 2):
```