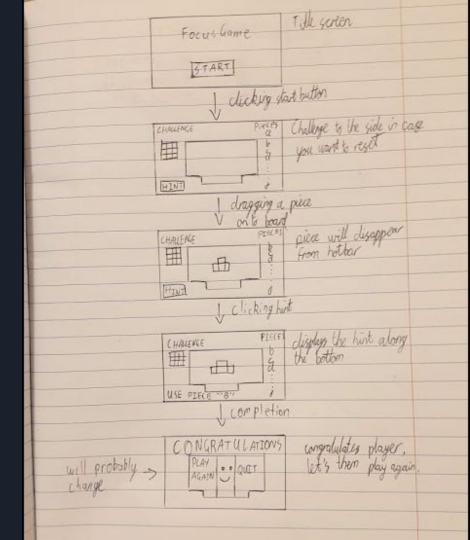
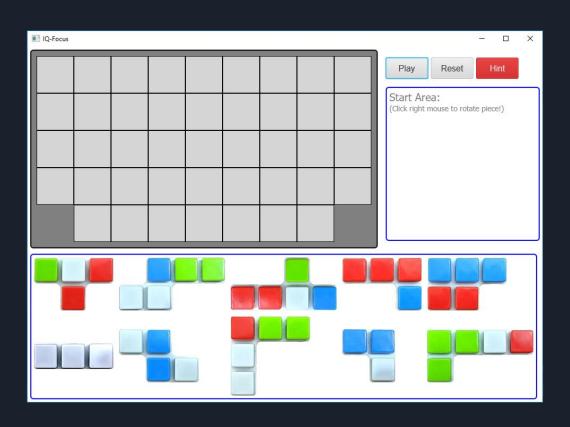
IQ-Focus

Structured Programming
COMP 6710
Tutorial - Tuesday 12
Group - U
Tutor - Yiyi Shao

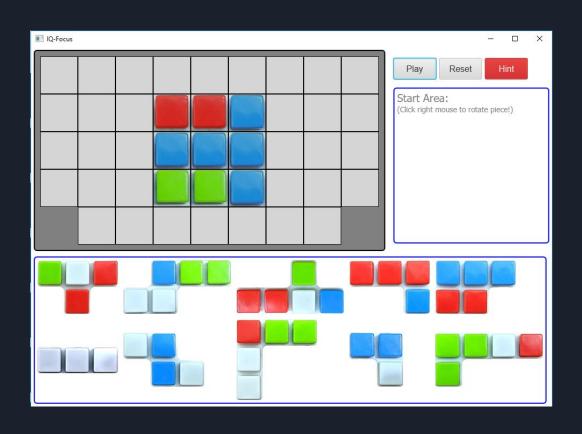
Initial sketch of GUI



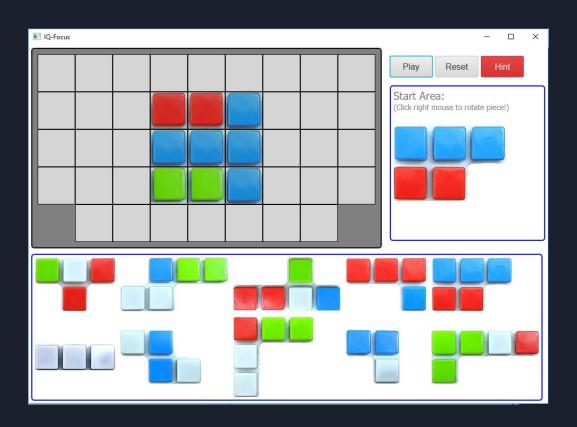
Board Outline:



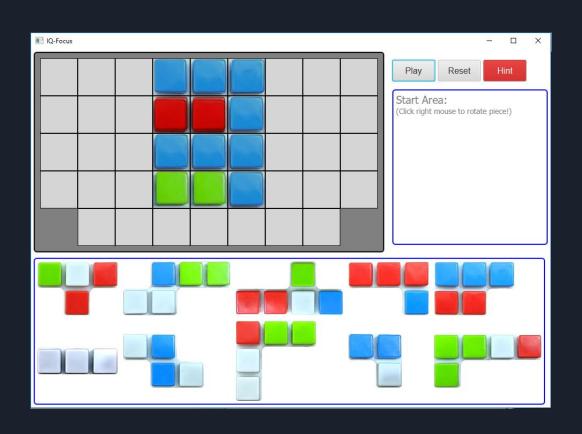
Embedding the challenge:



Displaying Selected Piece:



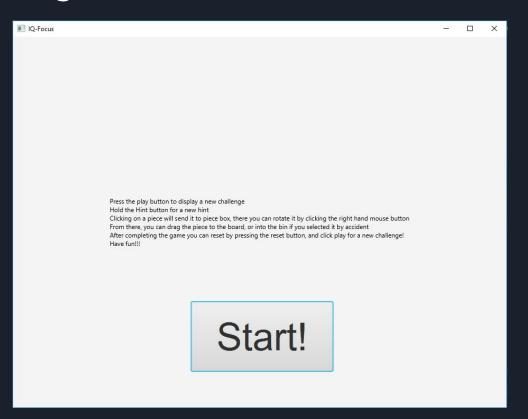
Holding the hint button



GUI development:

Initial implementation	Final implementation
Challenge off to the side	Embedded challenge
Pieces to the left	Pieces along the bottom
End screen	No end screen
Hint displayed as text	Hint displayed by transparent piece on board
Instructions weren't accounted for	Instructions as the initial popup

Start Page:

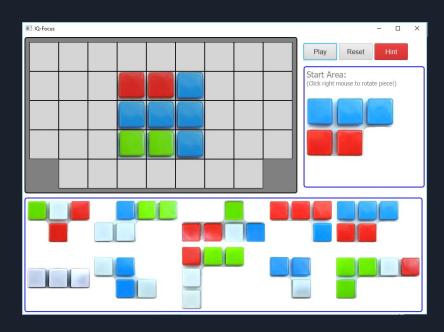


Updated Start Page:



Challenges creating an edge case

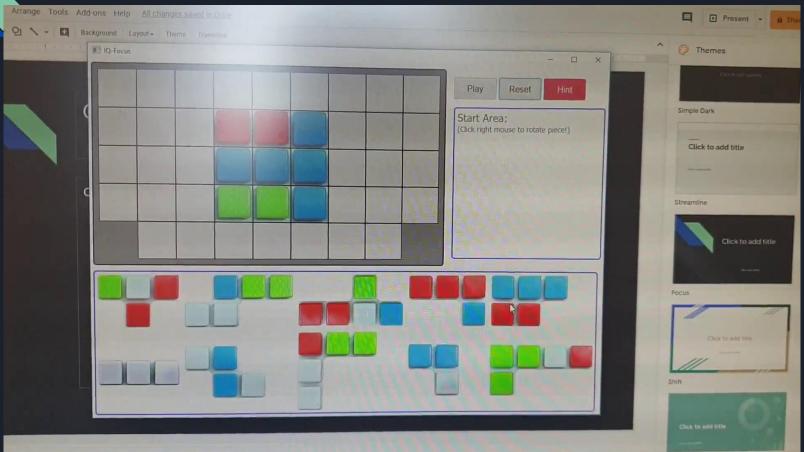
- There used to be a box underneath the piece box that showed the challenge
- Clicking the play button would add a challenge to that box, without erasing the previous challenge



Finding multiple solutions:

- Data Structure used : List<Set<String>>
- Purpose : Task 11
- ❖ An extension for Task 9.
- **❖** Reason:
 - > Classifying the randomly generated challenges based on the number of solutions.

A piece selection edge case

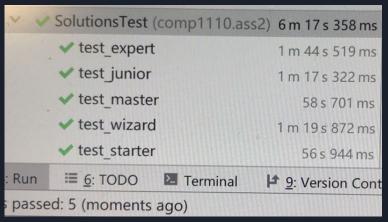


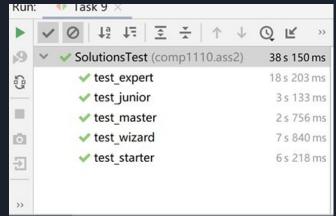
An exercise in hardcoding

```
public static String[]
        "WWRWRWWWR"
```

Optimisation of tasks 6 & 9:

Putting a piece on the central area of the challenge majorly constrained the range of search

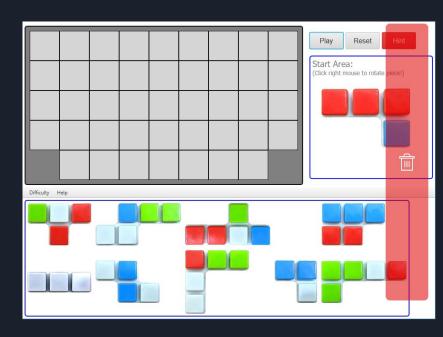




The removal function

- Idea of remove function: drag it to trash can!
 - ➤ Like the method in mobile phone OS





The hint button and it's overlay features

Modify any incorrectly placed pieces and/or display the next correct step

