IQ Link

COMP1110/1140/1510/6710 major assignment

Alex Smith (u5838800), Yicong Du (u6127601)

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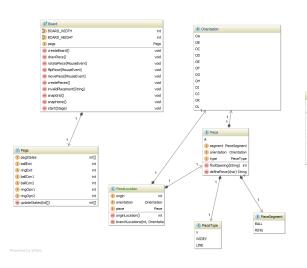
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Summary

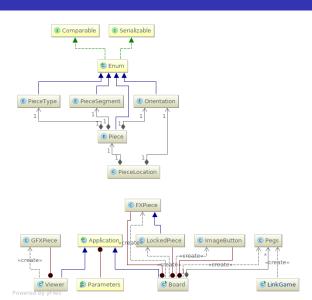
- Rocky start losing a member from our group
- Created Piece class with enumerators
- Added placement methods
- Implemented Viewer
- Implemented full GUI for game
 - Piece drawing and movement
 - Game selection
 - Hint viewer as string, then image
 - Other QoL additions
- No regular meetings, but constant communication

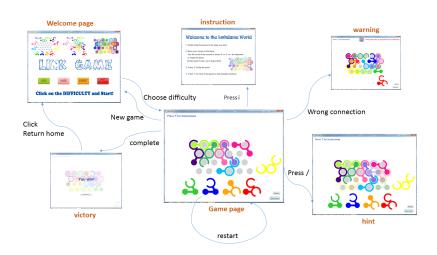
Design

- Enumerators for pieces and info, int array for pegs
- Store piece rotation, info, etc. in the enumerator
- Store ball/ring, connectors/gaps, in peg info
- Handle all GUI-related things in Board, all back-end in LinkGame









Piece and Peg classes, mk. I

Enumerator declaration

```
enum Piece {
A (LINE,OA,
RING,2,3,
BALL,4,0,
BALL,1,0),
...
}
```

Peg declaration

```
public Pegs(int[] states) {
    this.ballExit = states[0];
    this.ballCon1 = states[1];
    this.ballCon2 = states[2];
    this.ringExit = states[3];
    this.ringOpn1 = states[4];
    this.ringOpn2 = states[5];
}
```

Invalid placements



Game remake buttons



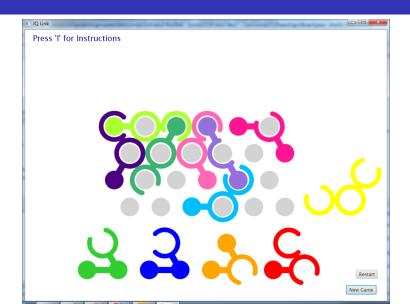
Screenshots

Welcome screen

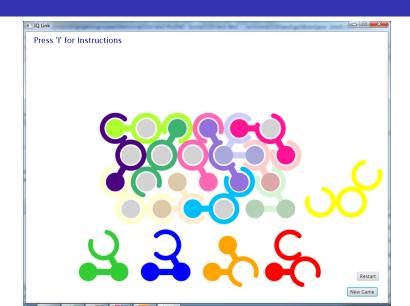


Click on the DIFFICULTY and Start!

Main game



Hints



Can't do that



Victory



Questions?