## IQ Link

COMP1110/1140/1510/6710 major assignment

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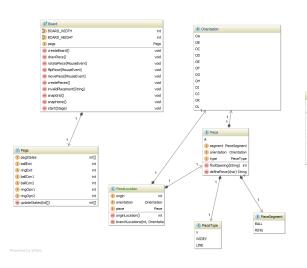
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## Summary

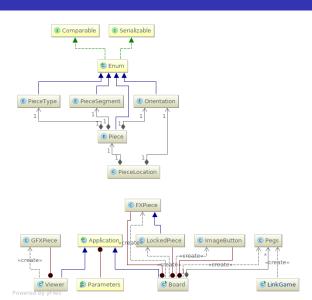
- Created Piece class with enumerators
- Added placement methods
- Implemented Viewer with one, then multiple, piece viewer
- Implemented full GUI for game
  - Piece drawing and movement
  - Game selection
  - Hint viewer as string, then image
  - Other QoL additions

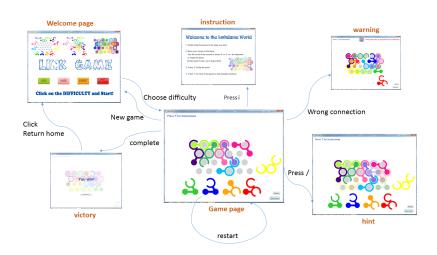
# Design

- 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



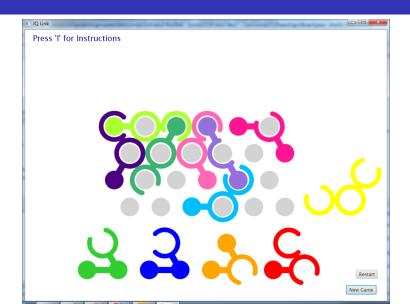
# Screenshots

## Welcome screen

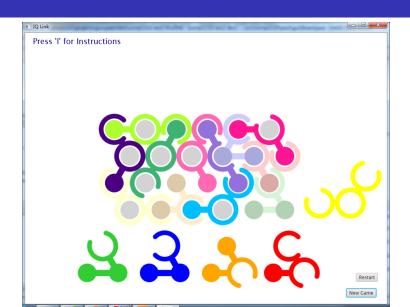


Click on the DIFFICULTY and Start!

## Main game



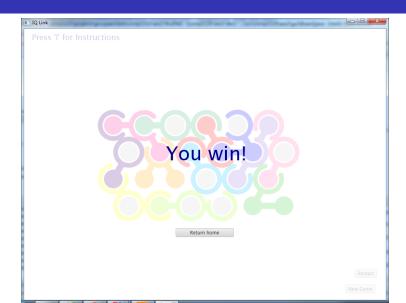
## Hints



## Can't do that



## Victory



# Questions?