

Comp 6710 Presentation

Group 11ThuH

Honggu Lin U6135394

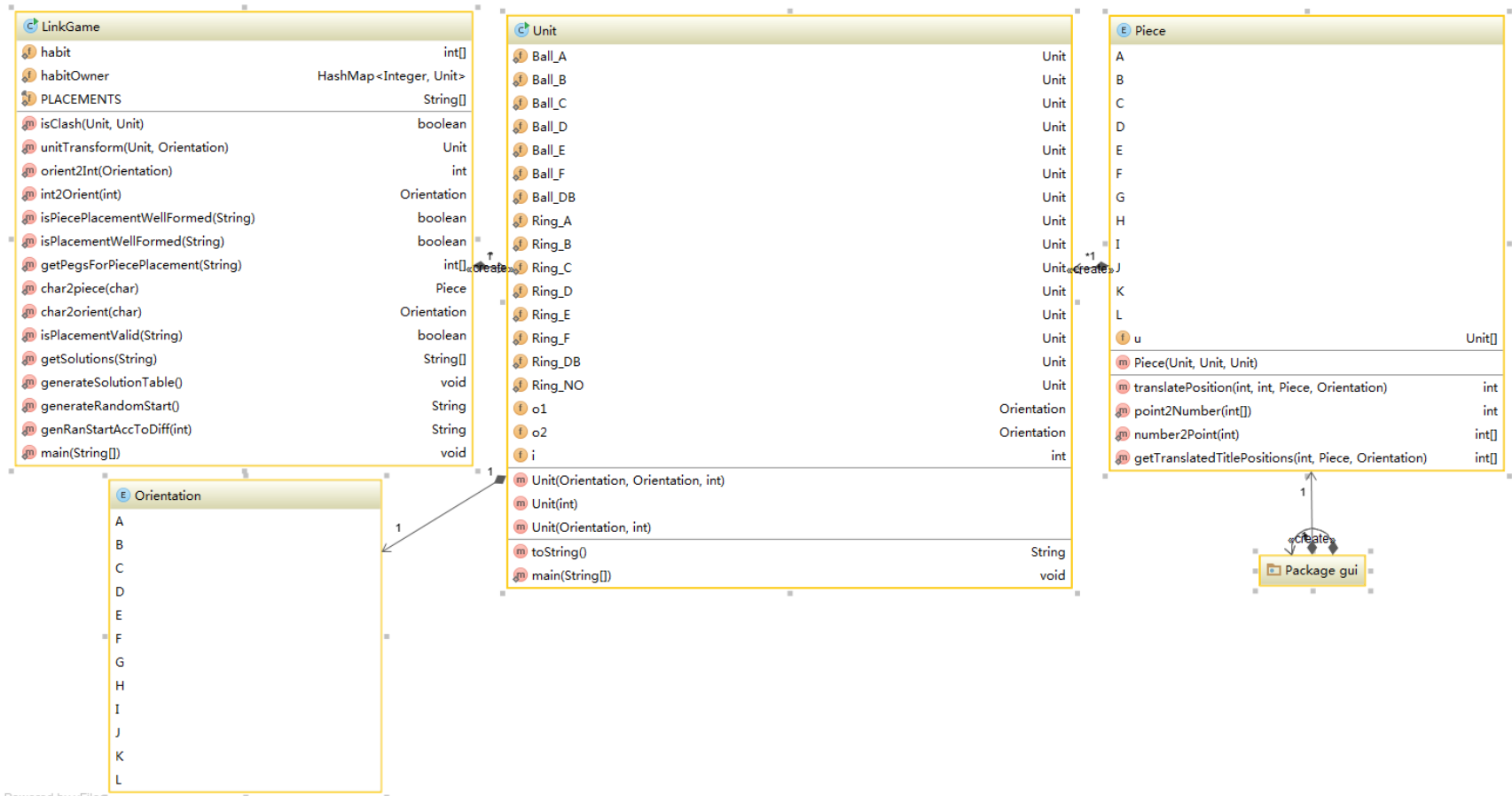
Boya Na U5918786

Yuxi Chen U6106850

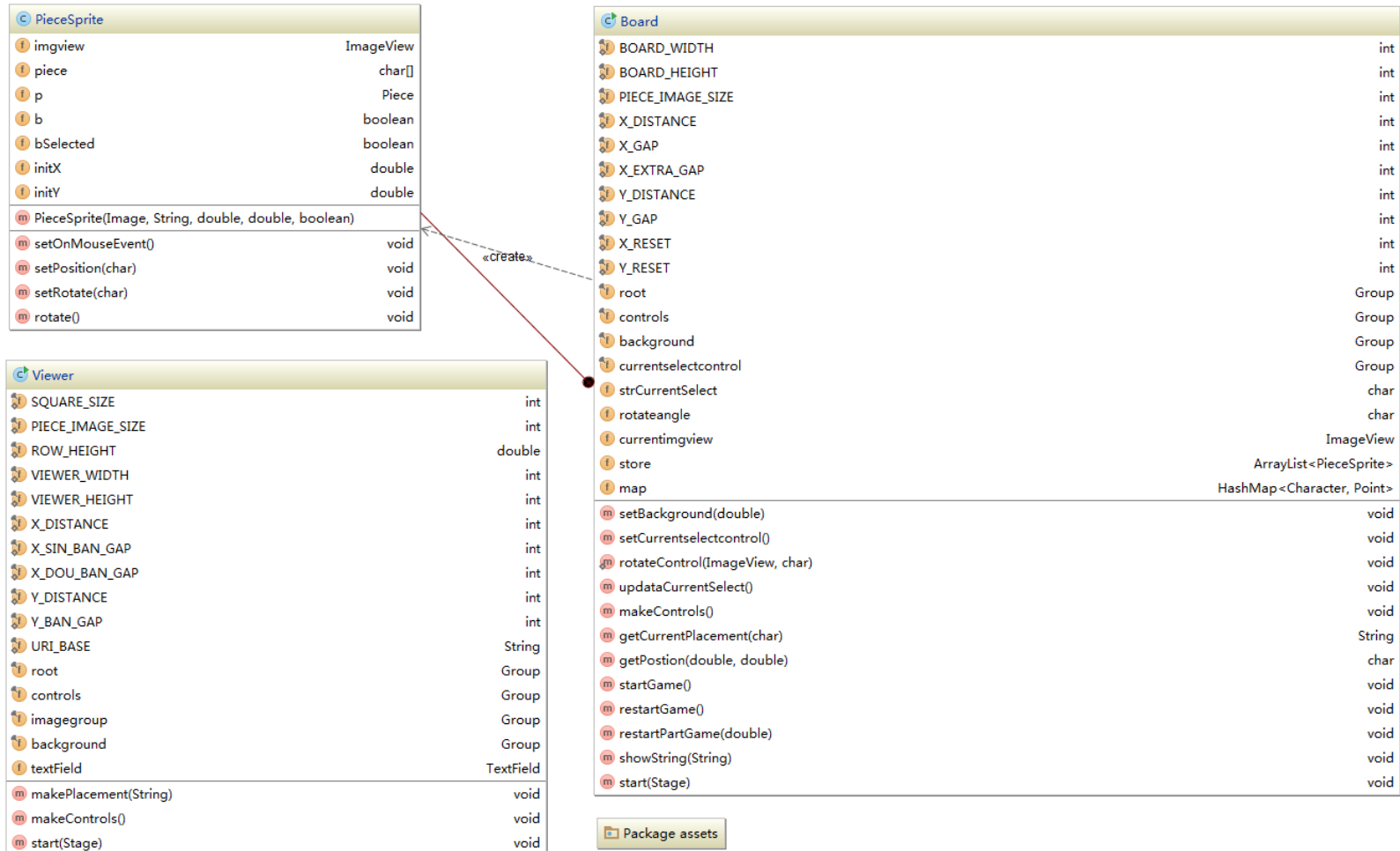
Introduction

- **Analyze requirement of development**
- **Design model using UML**
- **Design tests**
- **Implement model and control layer**
- **Implement visual layer by JavaFX**
- **Debug and advance user experience**

Class Diagram



Class Diagram



MODEL ---- Data Structure

- **Piece (A,B,C,D,E,F,G,H,I,J,K,L)**
- **Unit**
 - **Ball (A,B,C,D,F,DB)**
 - **Ring (A,B,C,D,E,F,DB,NO)**
- **Orientation (A,B,C,D,E,F,G,H,I,J,K,L)**

MODEL ---- Algorithm

- **getSolutions**

using Depth First Search

to find the solutions of the game

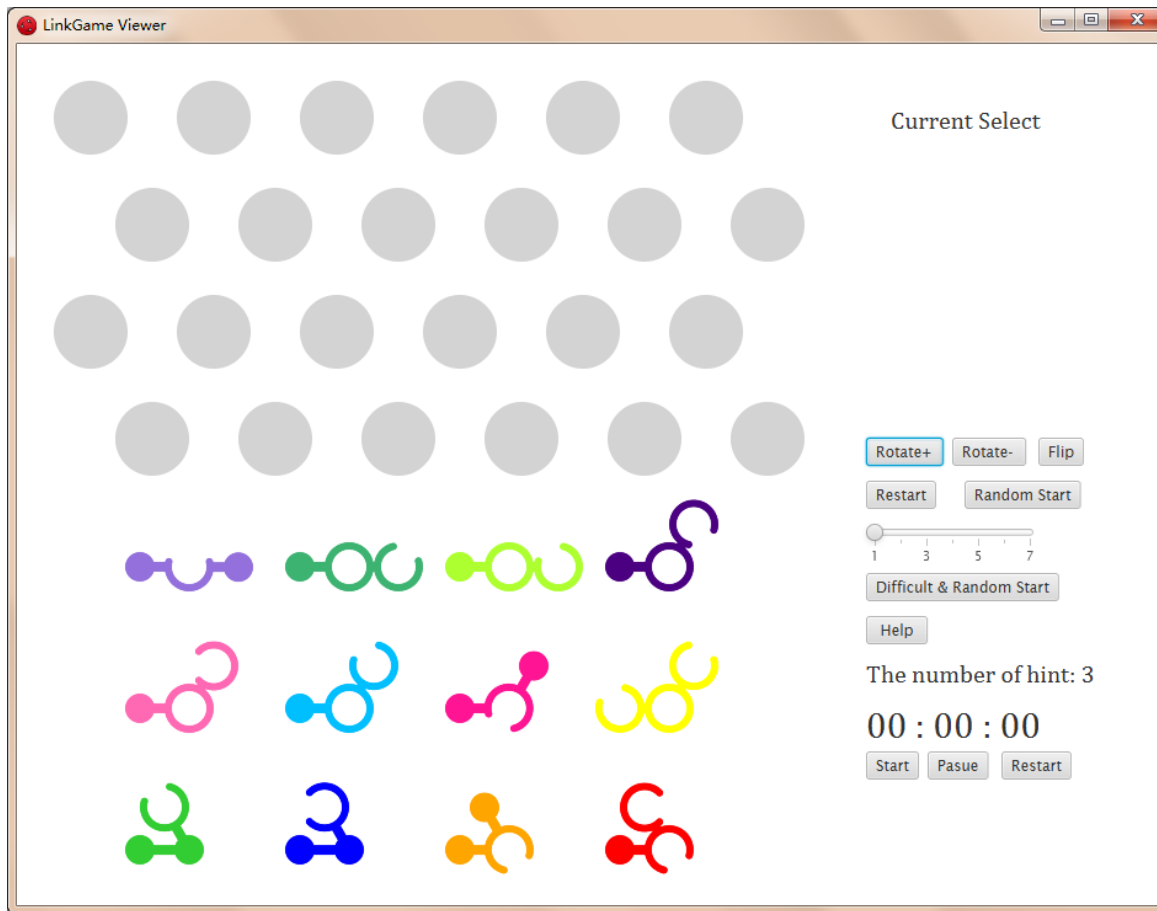
CONTROL ---- Conversion

- **unitTransform**
- **orient2Int/int2Orient**
- **char2piece/char2orient**
- **translatePosition**
- **point2Number/number2Point**
- **getTranslatedTitlePositions**

CONTROL ---- Validity Check

- **isPiecePlacementWellFormed**
- **isPlacementWellFormed**
- **getPegsForPiecePlacement**
- **isPlacementValid**
- **isClash**

VISUAL



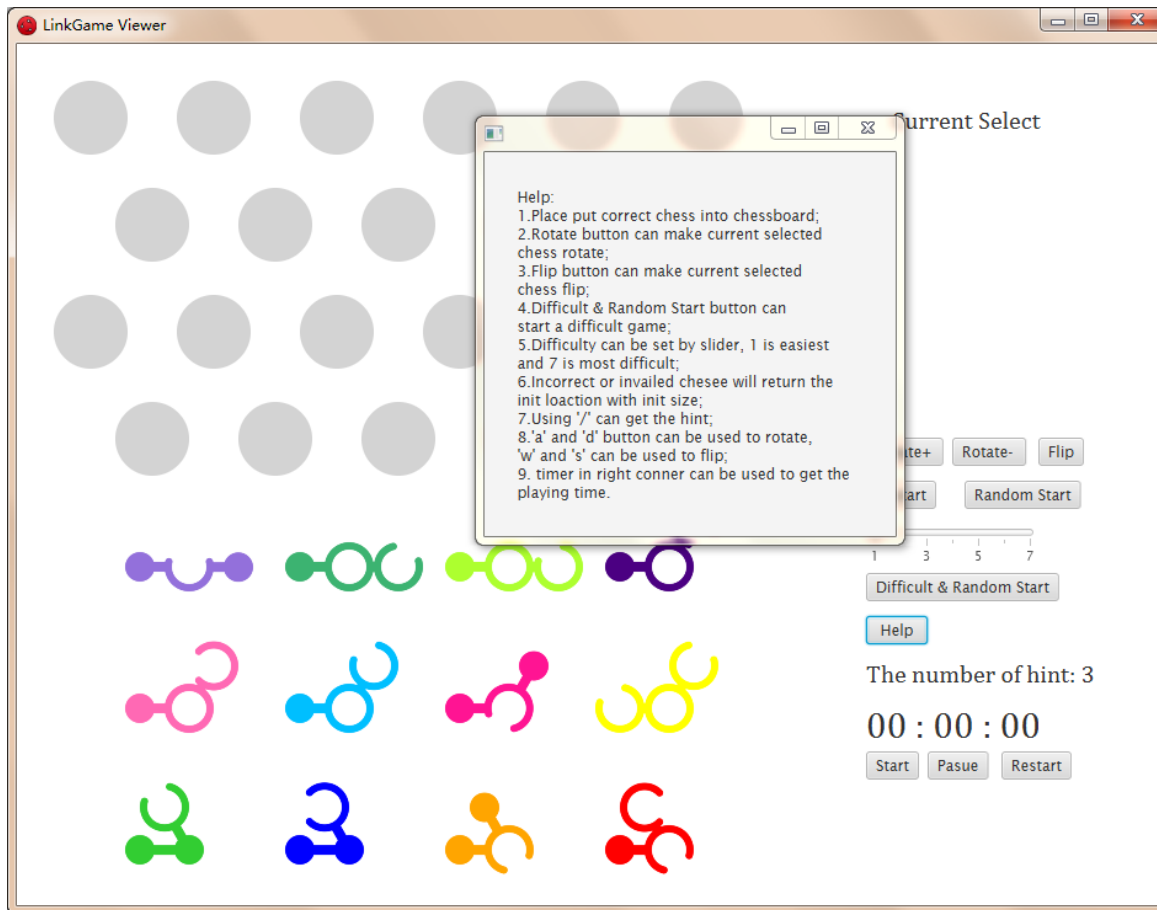
Button Rotate+/-, Flip:
Control the orientation.

Button Restart:
Restart the game.

Button Random Start:
Start Randomly.

Button Diff&Ran Start:
Start due to difficulty
setting in above line.

VISUAL

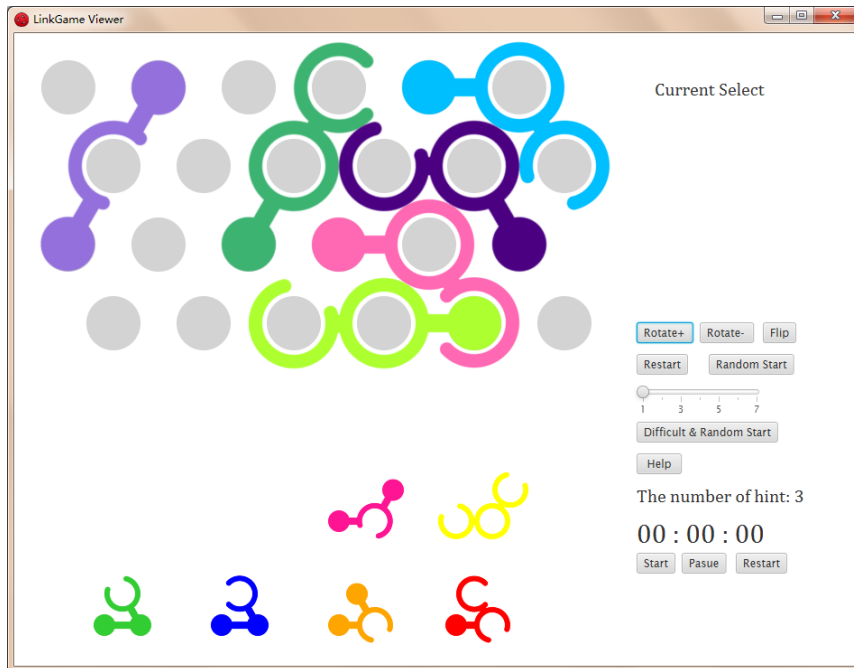


**Button Help:
Show Help**

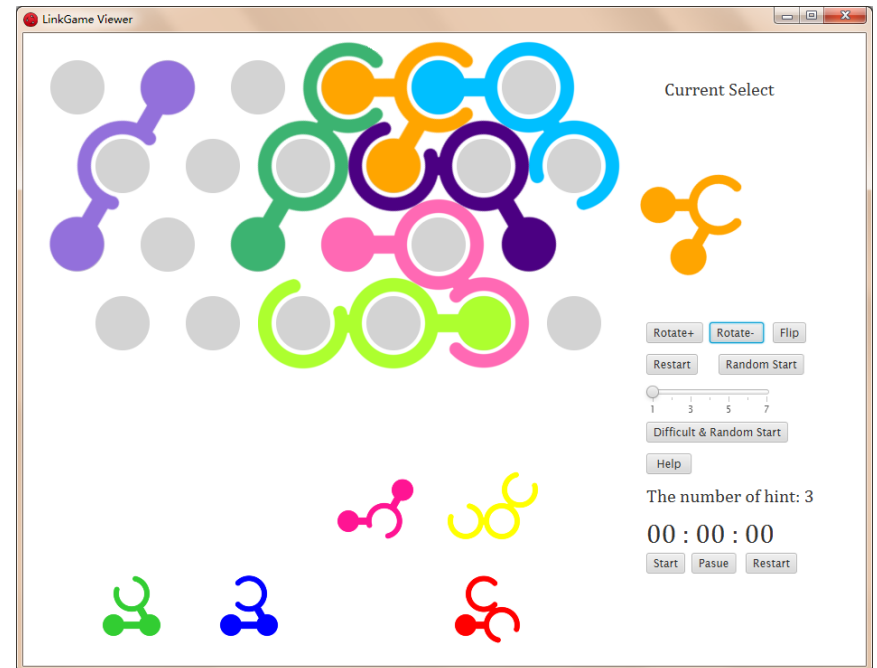
**We give out three
hints, and you can see
the number of
remained ones.**

**At left bottom there is
a timer for helping
accounting the time.
You can pause at any
time you want.**

VISUAL

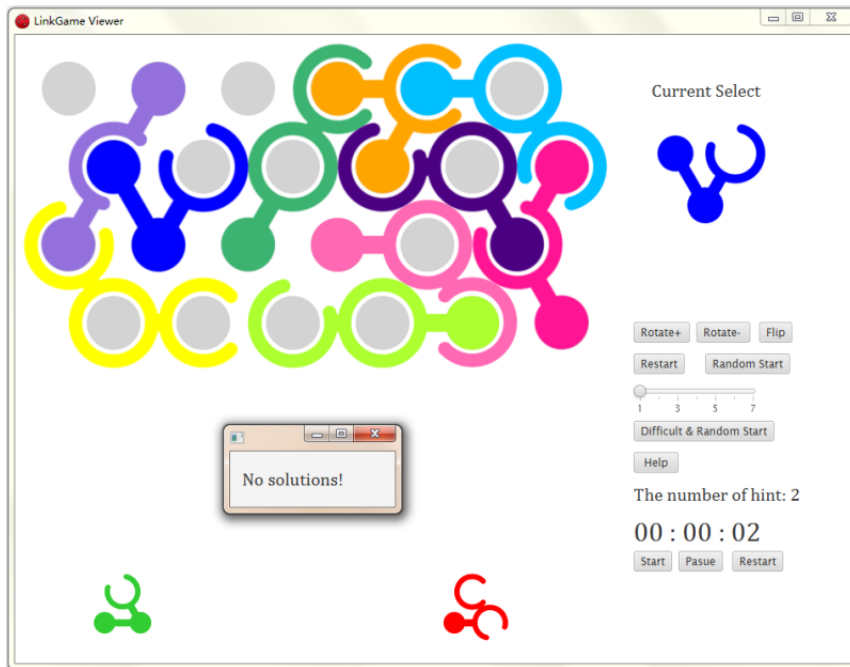


Start

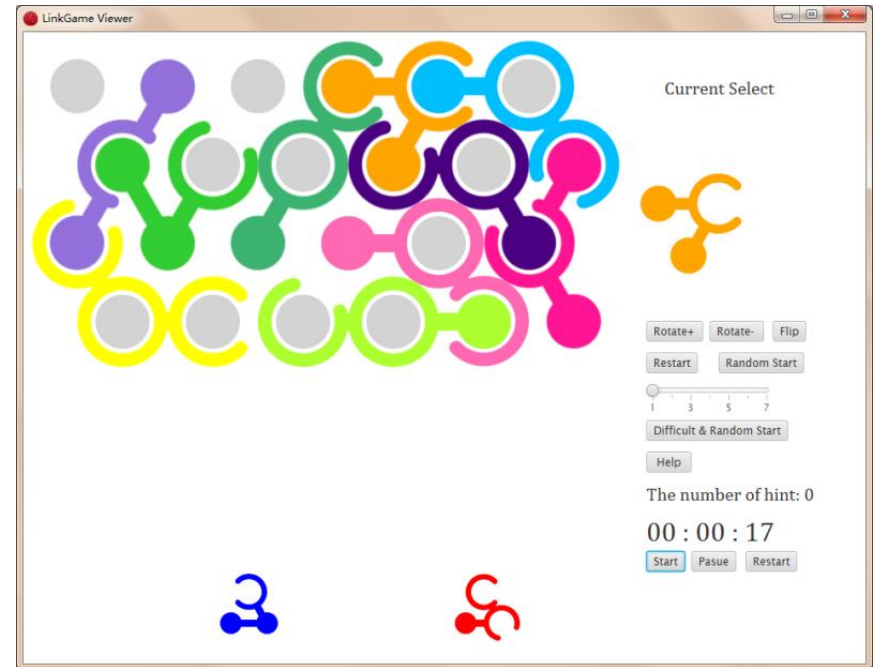


Rotate

VISUAL

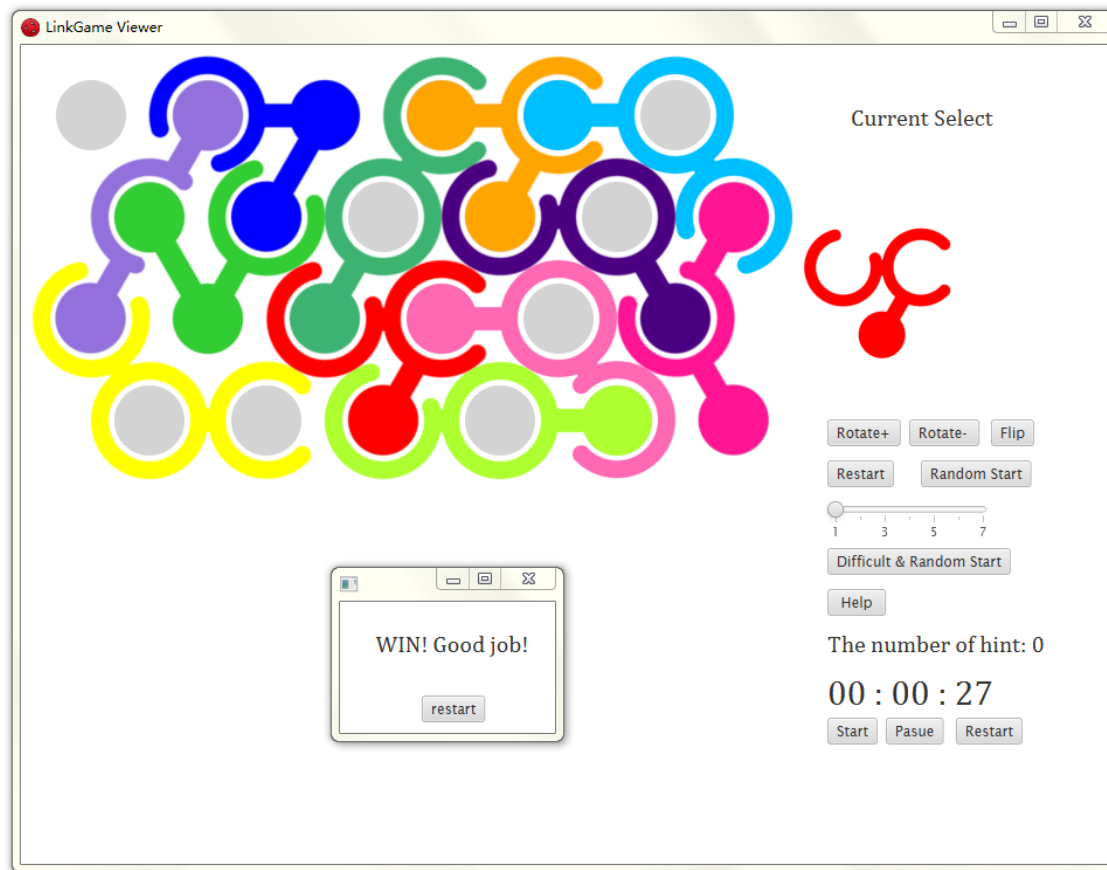


Use Hint after a Wrong move



Use out 3 Hints

VISUAL



Succeed in Solving!

More Features

- **Hint (by step)**
- **Icon**
- **Timer**
- **Winning Notice**

Thank you