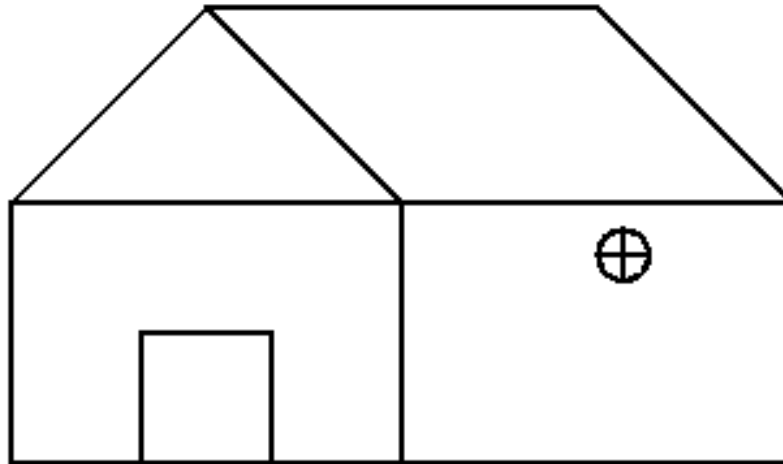
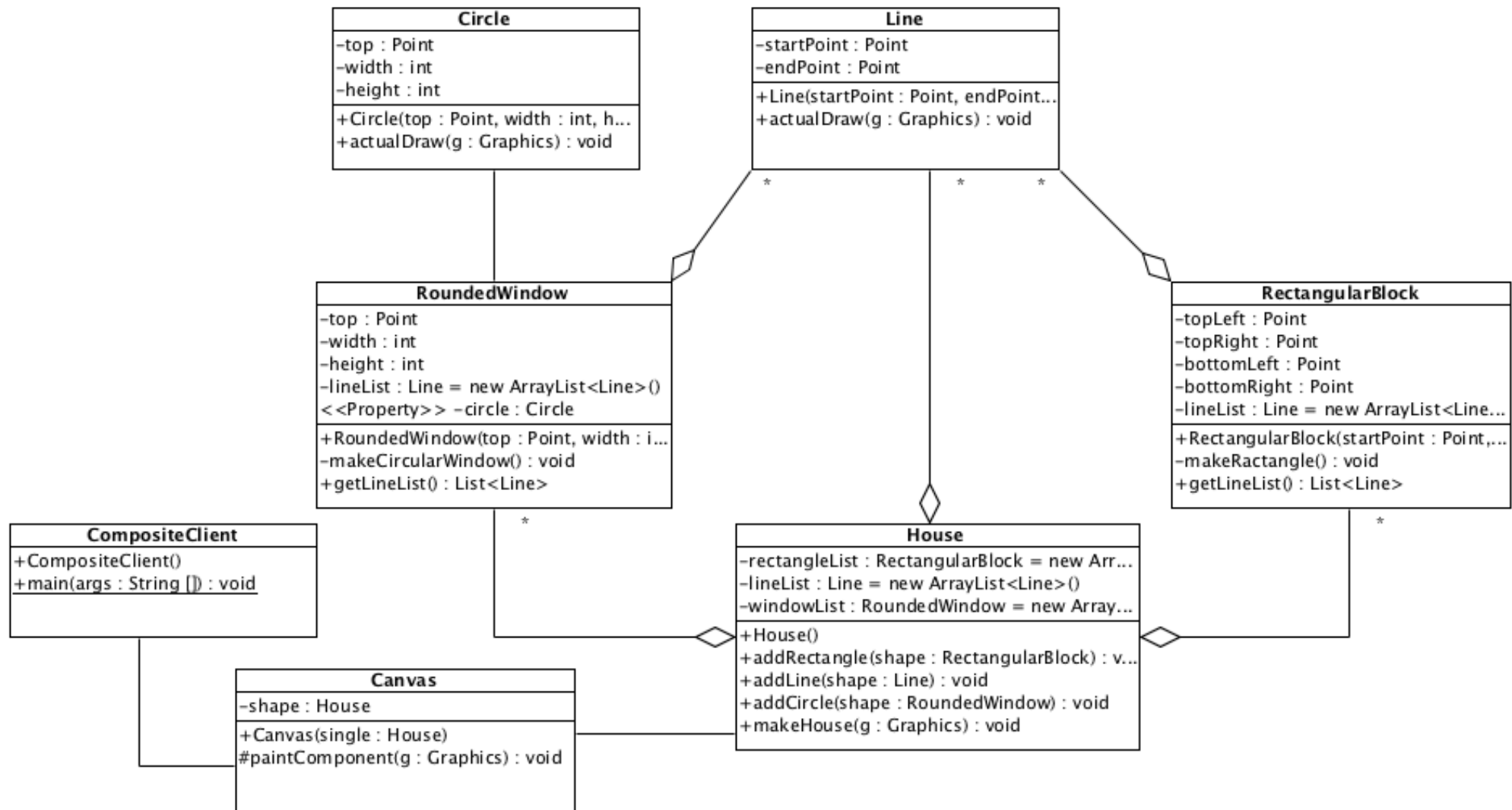


Problem Statement: Draw a house

- Draw a house consisting of lines, round windows and rectangular blocks



Old (bad) solution in the legacy system



Task #1: Use the Composite pattern (15 min)

- Problem in the code of the legacy system:
 - RoundedWindow and the RectangularBlock don't have a draw() method
- The House class knows how to draw the house (non-flexible implementation)
- **Your Task :** Refactor the legacy code by using the composite pattern.

```
public void makeHouse(Graphics g) {  
    for (RoundedWindow item : windowList) {  
        item.getCircle().actualDraw(g);  
        for (Line lineItem : item.getLineList()) {  
            lineItem.actualDraw(g);  
        }  
    }  
    for (RectangularBlock item : rectangleList) {  
        for (Line lineItem : item.getLineList())  
            lineItem.actualDraw(g);  
    }  
    for (Line lineItem : lineList) {  
        lineItem.actualDraw(g);  
    }  
}
```