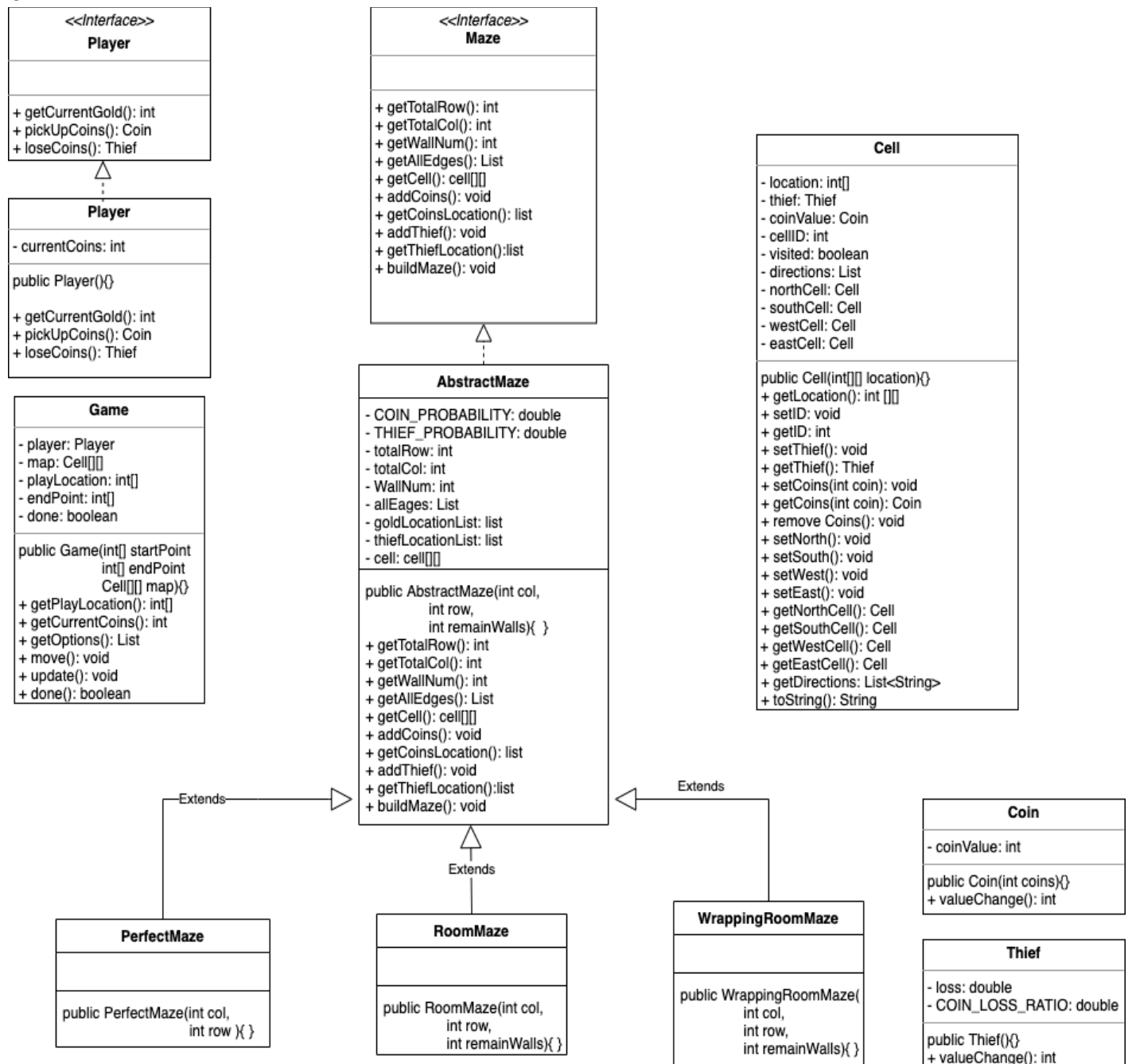


## HW3:

## UML:



## Test Case:

### 1. Test Maze

//Check maze Construction: toString()

//Check maze information:

assertEquals(1, maze.getNumOfRows())

assertEquals(1, maze.getNumOfCols())

assertEquals(0, maze.getRemainWalls())

assertEquals(false, maze.isWrapped())

```
//test negative numofRows/numofCol: throw IllegalArgumentException  
Perfect maze = new PerfectMaze(1, -2);
```

```
//test invalid remain walls  
PerfectMaze maze = new PerfectMaze(3,2,3) //should be between 0 – 2
```

```
//test negative numofRows/numofCol  
assertEquals(1, maze.getNumOfRows())  
assertEquals(1, maze.getNumOfCols())
```

```
//Check gold information:  
assertEquals(2, maze.getGoldLocation().get[0](2))
```

```
//Check thief information:  
assertEquals(2, maze.getThiefLocation().get[0](2))
```

## 2. Test Player:

```
//test current gold  
assertEquals(0, player.getCurrentGold());  
// testCollectGold  
// testLoseGold  
//start point/ goal point have negative num  
Play.setStartingPoint(0,-2);
```

## 3. Test Game:

```
//testPlayLocation. After each move  
assertEquals(0, MazeGame.getPlayerLocation()[1]);  
MazeGame.move(SOUTH);  
assertEquals(1, newGame.getPlayerLocation()[0]);  
// testCurrentGold, after moving
```