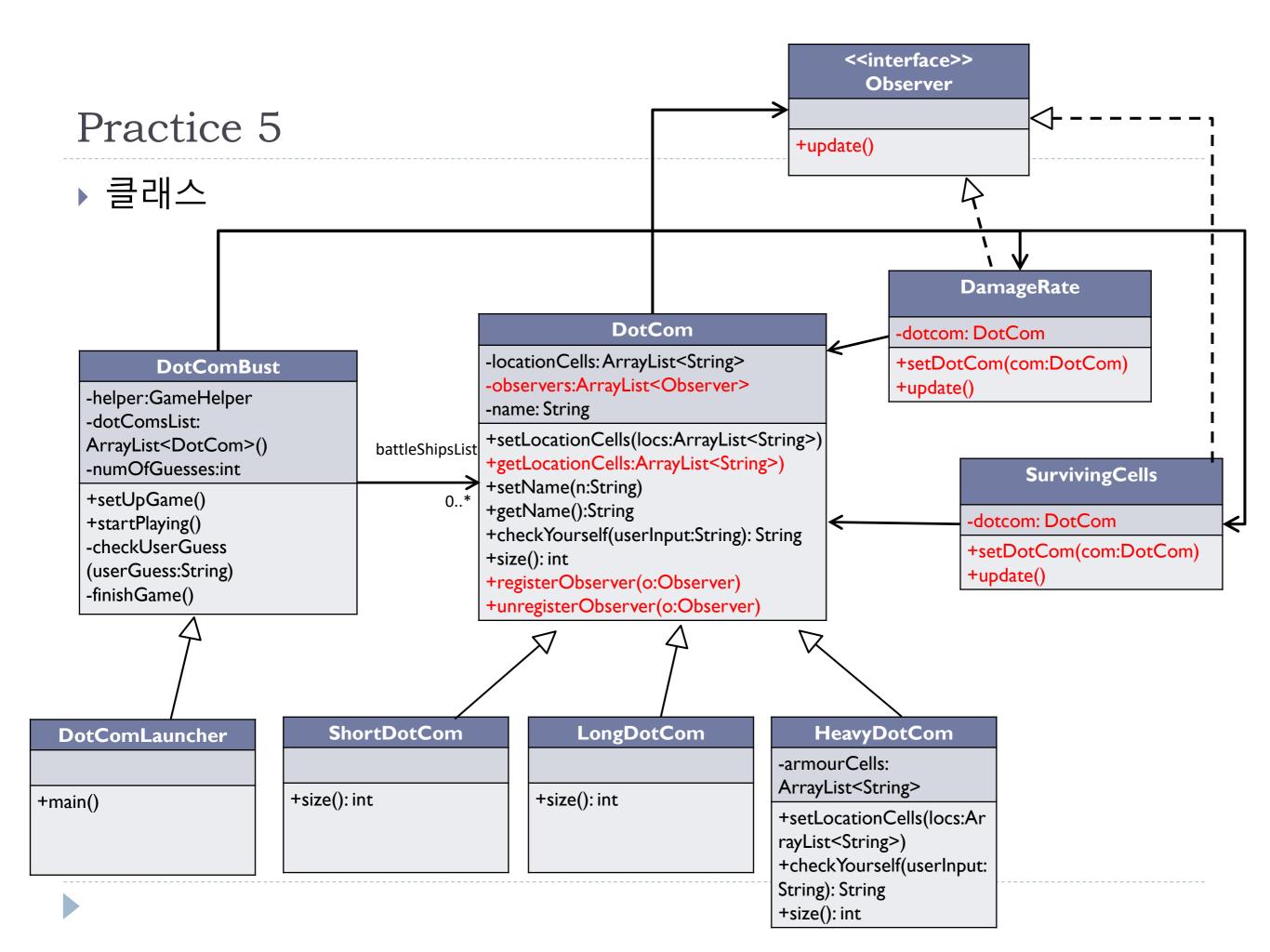
Practice 5

- ▶ 제목: DotCom 게임 추가 확장
- ▶ 내용
 - ▶ 지난 주 실습 코드를 가지고 DotCom 객체의 상태를 모니터링하기 위한 Observer 인터페이스를 구현한다.
 - ▶ 각 DotCom에는 한 개 이상의 Observer 객체들을 등록하고 해제할 수 있도록 다음 을 추가한다:
 - ▶ void registerObserver(o:Observer); // observer 객체 등록
 - ▶ void unregisterObserver(o:Observer); // observer 객체 해제
 - ▶ ArrayList<Observer> observers; // observer 객체 리스트
 - ▶ "hit" 또는 "kill"이 된 DotCom 객체는 자신의 observer들에 대하여 update() 호출
 - ▶ Objserver interface를 구현하는 클래스는 다음과 같다:
 - class SurvivingCells implements Observer
 - □ void update(); // 살아남은 cell 출력
 - class DamageRate implements Observer
 - □ void update(); // 피해율 출력(100 x (DotCom.size() # of surviving cells)/DotCom.size()) %)

Observer 객체 사용예

setUpGame() in DotComBust.java

```
for (DotCom dotComToSet : dotComsList) {
   ArrayList<String> newLocation = helper.placeDotCom(dotComToSet.size());
    dotComToSet.setLocationCells(newLocation);
   // SurvivingCells 객체를 dotComToSet에 등록
   SurvivingCells scells = new SurvivingCells();
    scells.setDotCom(dotComToSet);
    dotComToSet.registerObserver(scells);
    // DamageRate 객체를 dotComToSet에 등록
   DamageRate drate = new DamageRate();
    drate.setDotCom(dotComToSet);
   dotComToSet.registerObserver(drate);
```



출력 결과

```
[fl, f2]
[c0, d0, e0, f0]
[el, e2, e3]
Surviving cells in eToys.com:c0 e0 f0
Damage rate of eToys.com:25%
Surviving cells in Pets.com:f2
Damage rate of Pets.com:50%
Surviving cells in eToys.com:c0 f0
Damage rate of eToys.com:50%
Surviving cells in eToys.com:c0
Damage rate of eToys.com:75%
Surviving cells in Go2.com:e1 e3
Damage rate of Go2.com:33%
Surviving cells in Pets.com: none
Damage rate of Pets.com:100%
You sunk Pets.com: (
Surviving cells in Go2.com:e1
Damage rate of Go2.com:66%
Surviving cells in Go2.com: none
Damage rate of Go2.com:100%
You sunk Go2.com:(
Surviving cells in eToys.com: none
Damage rate of eToys.com:100%
You sunk eToys.com:(
All Dot Coms are dead!
Took you long enough. 125 guesses.
```

Process finished with exit code 0