# Text-Based Battle Game

# Façade Pattern – Game Controller

```
private Character player;
private Character enemy;
private final String[] availableTypes = {"Warrior", "Mage", "Archer", "Bard", "Paladin", "Cleric"};
private final Map<String, CharacterFactory> factoryMap = new HashMap<>();
public GameControllerFacade() {...}
   setupCharacters();
   runBattleLoop();
   displayWinner();
private void setupCharacters() {...}
private void setupStrategies() {...}
private void showInitialStatus() \{\ldots\}
private void runBattleLoop() {...}
private void displayWinner() {...}
```

# Observer – Player Health

### Factory – Character Creation

```
7 usages 6 implementations new *

public interface CharacterFactory {

2 usages 6 implementations new *

... Character createCharacter();
}
```

#### Command – Actions

```
6 usages 3 implementations new *

public interface Action { //Encapsulates a request as an object — lets you parameterize and queue act
2 usages 3 implementations new *

····void execute();

no usages 3 implementations new *

····void unexecute();
}
```

#### Strategy – Battle Strategy