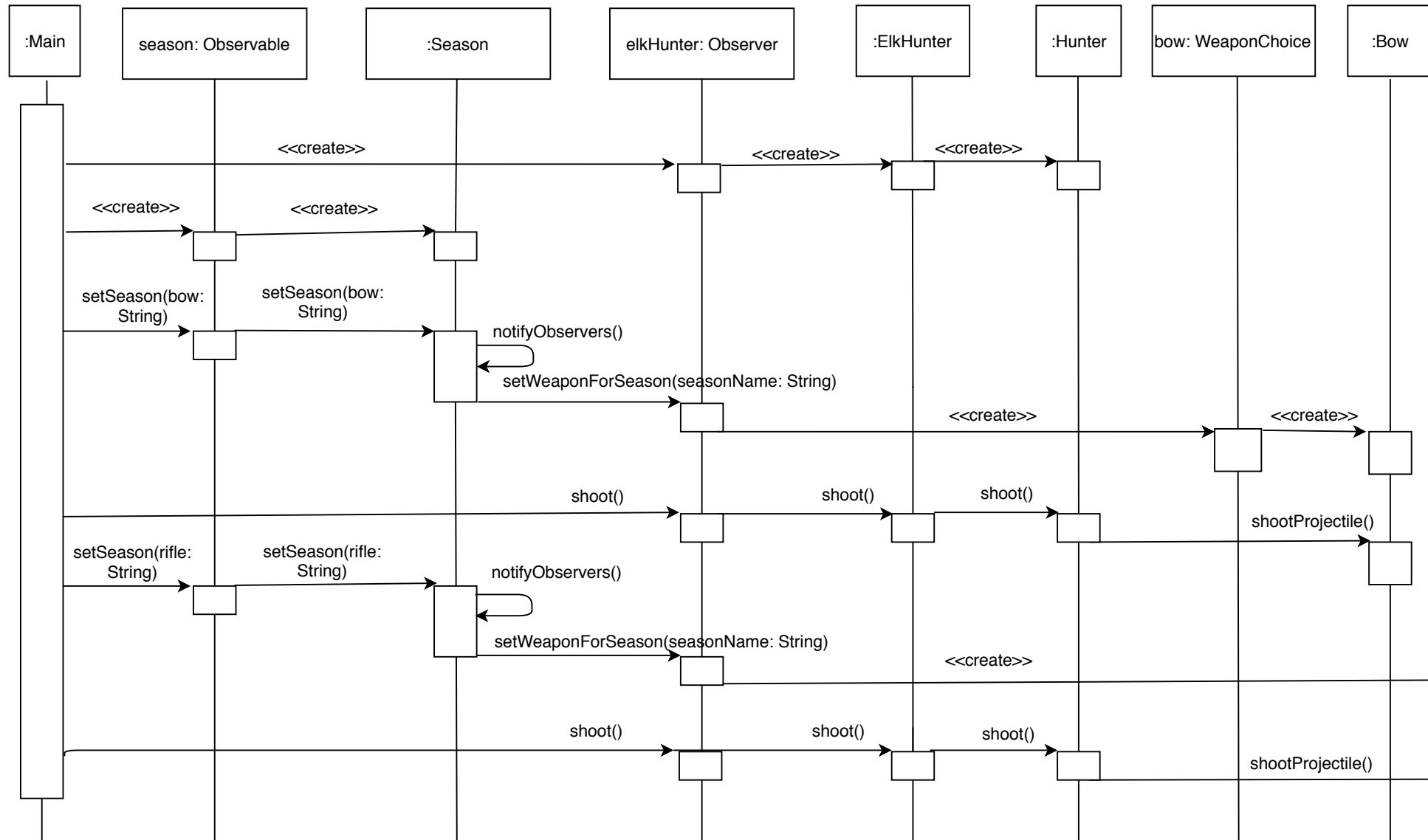


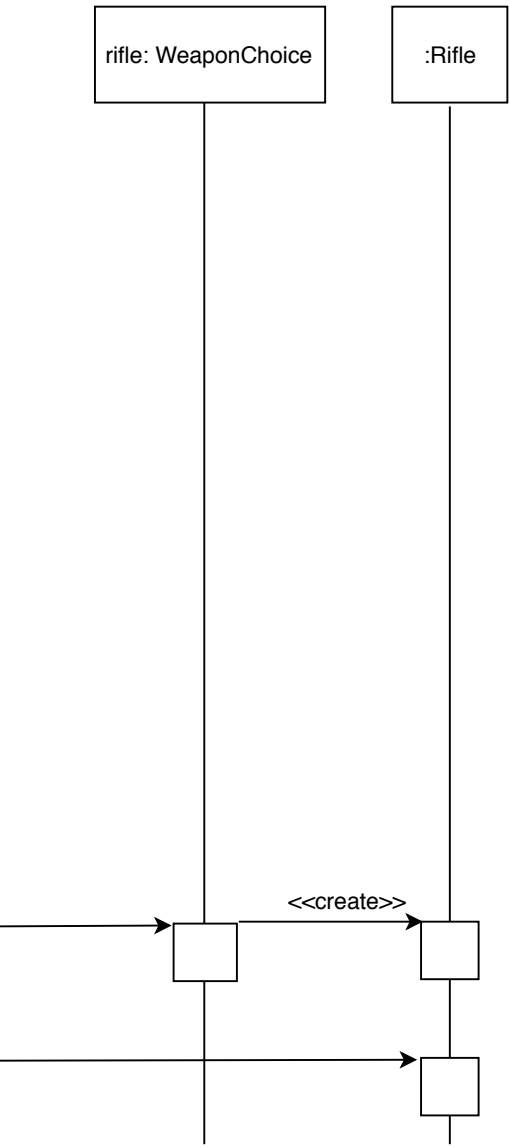
## Exercise 1B

### Part 1

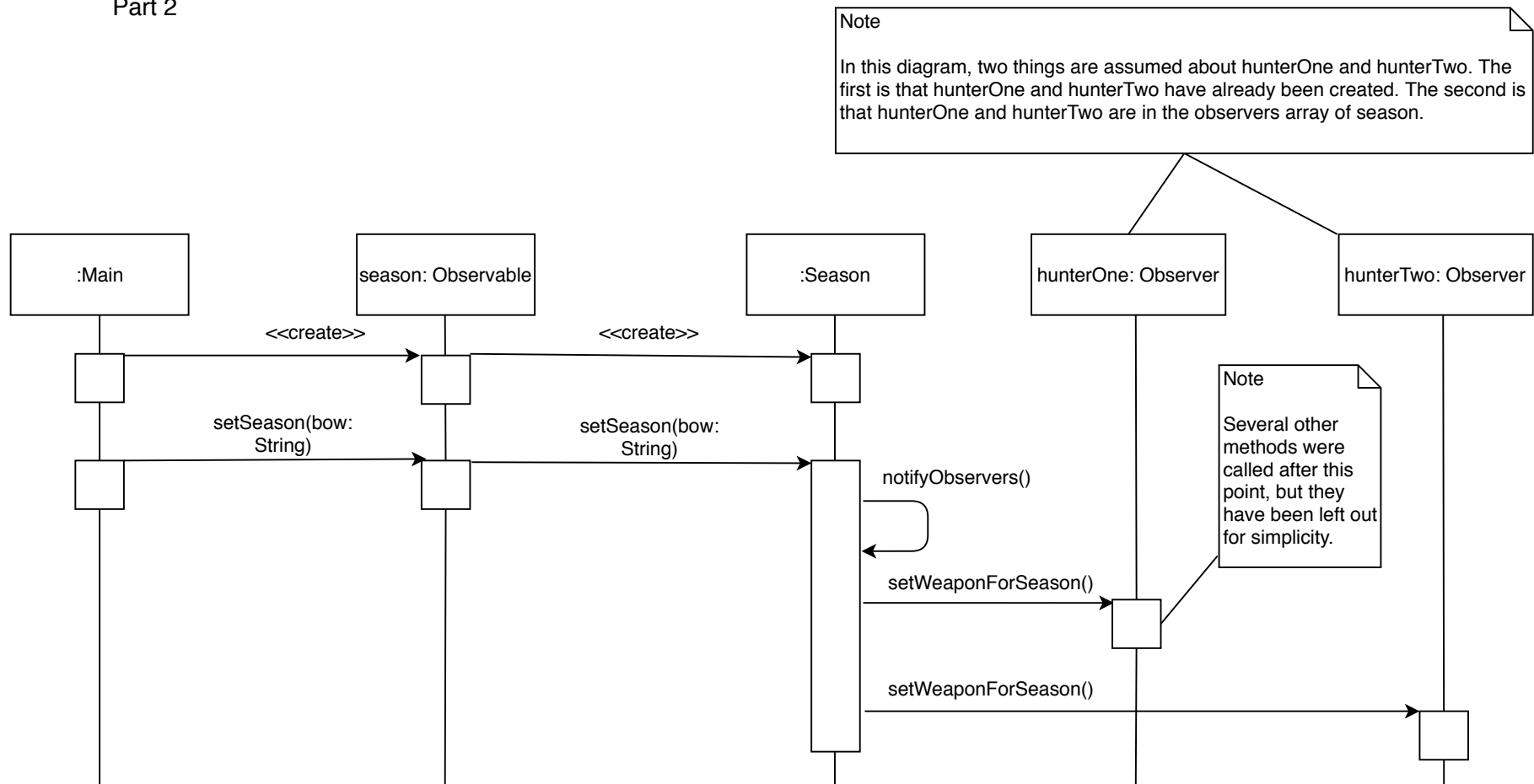


#### Note

This sequence diagram is an example of the Strategy pattern. This is because WeaponChoice is an interface, and the classes Bow and Rifle inherit from it. At runtime, we can change the hunter's weapon choice from Bow to Rifle or vice versa since we programmed to the interface. This allows us to change the behavior of shoot() and shootProjectile() at runtime based on the value of seasonName in the Season class..



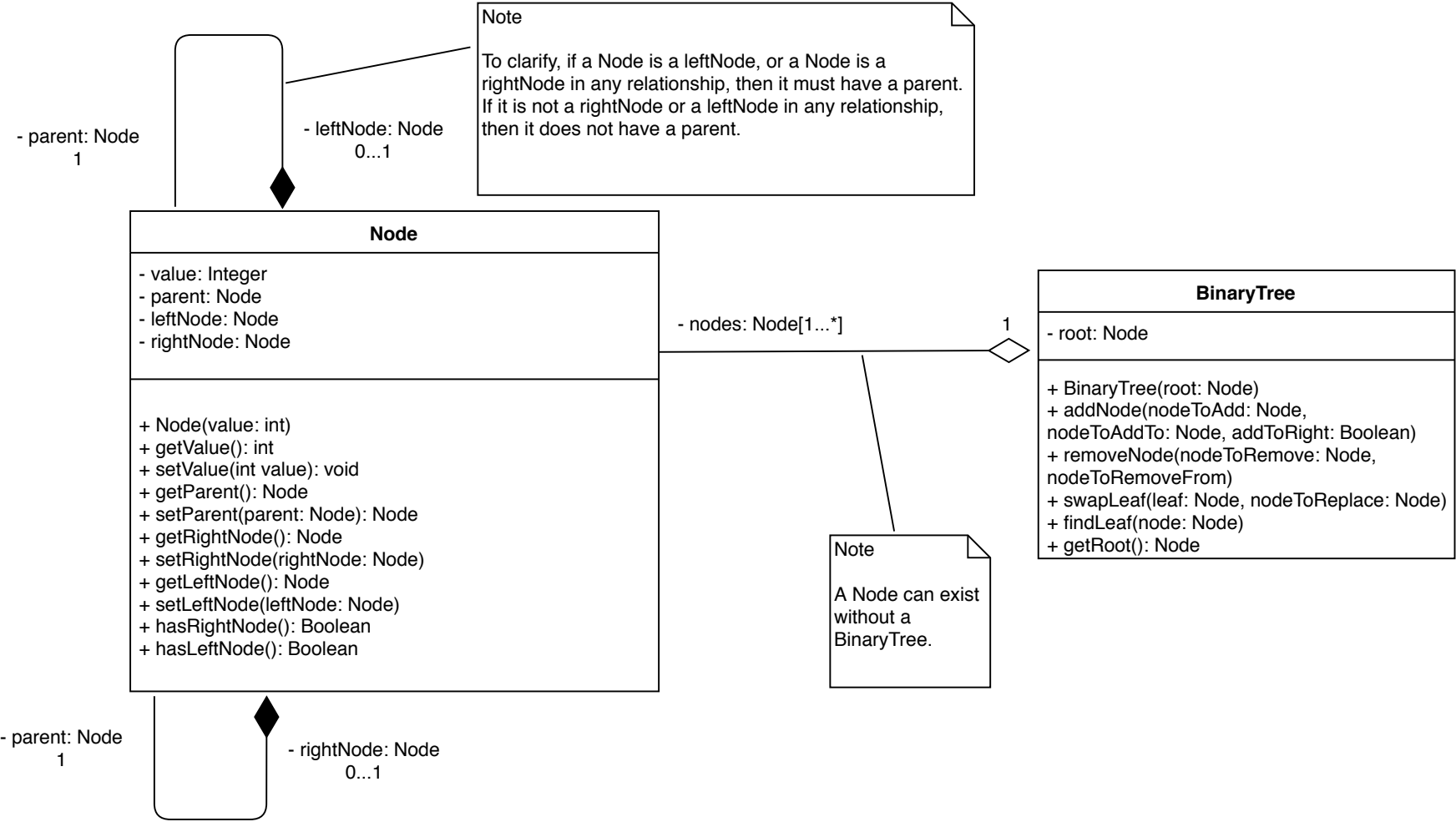
Exercise 1B  
Part 2



Note

This sequence demonstrates the Observer Pattern because `hunterOne` and `hunterTwo` are of type `Observer`, and are subscribed to `season`, which is of type `Observable`. We are able to send a `notifyObservers()` call to `season`, which then calls `getSeasonName()` on the `Season` class. This then updates `hunterOne` and `hunterTwo` via the `setWeaponForSeason()` calls.

Exercise  
2D



Exercise  
2F

