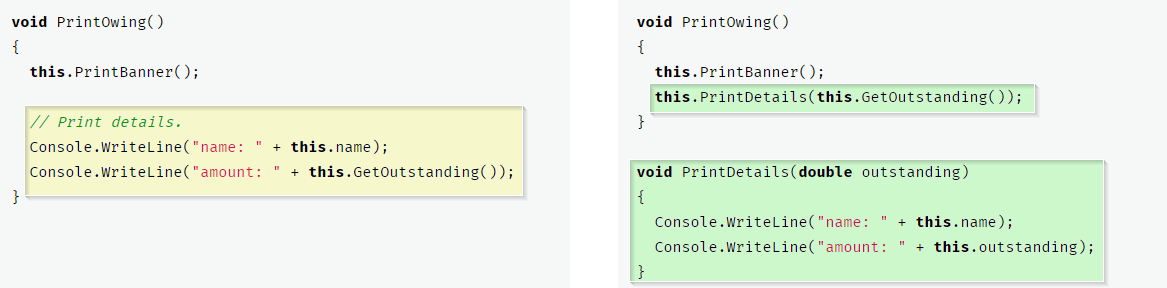
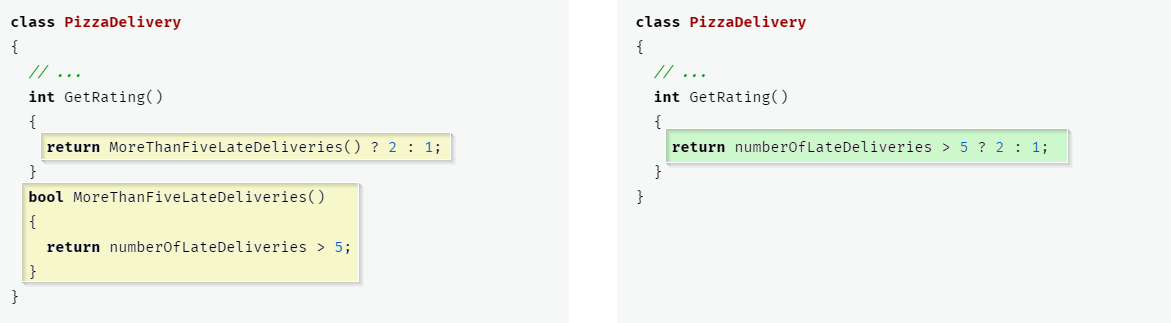
**Refactoring Techniques**

**Composing Methods**

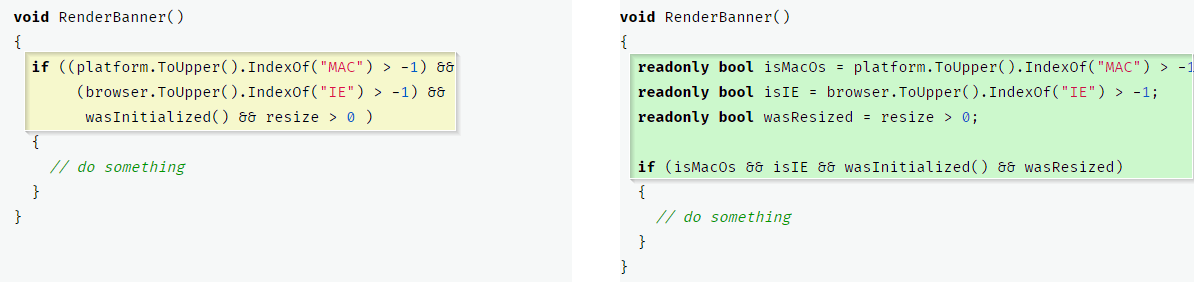
**Extract Method**



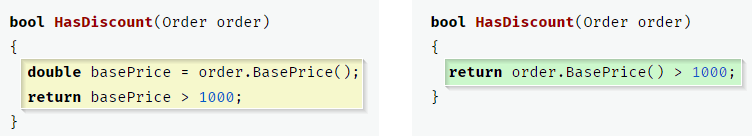
**Inline Method**



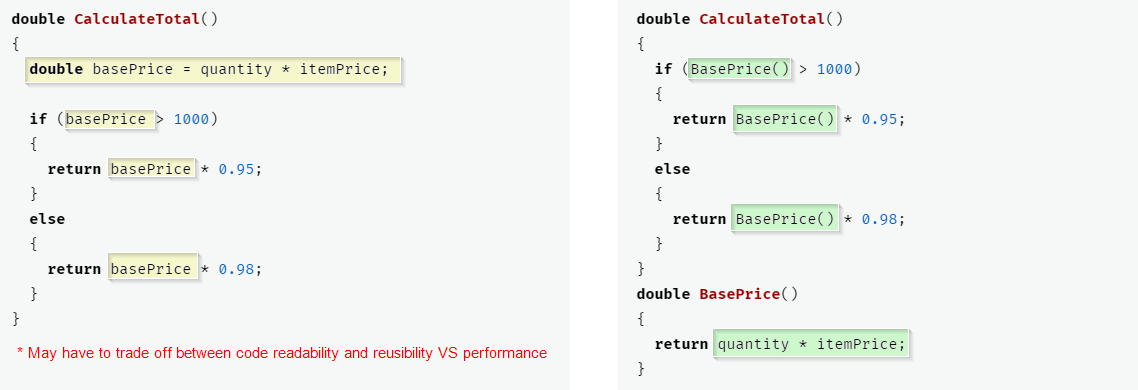
**Extract Variable**



**Inline Temp**



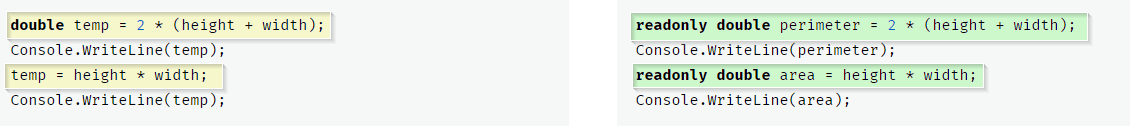
**Replace Temp with Query**



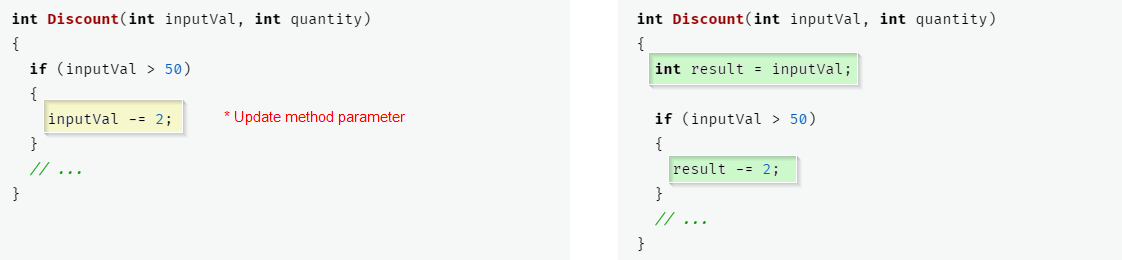
**Replace Method with Method Object**



**Split Temporary Variable**

****

**Remove Assignments to Parameters**

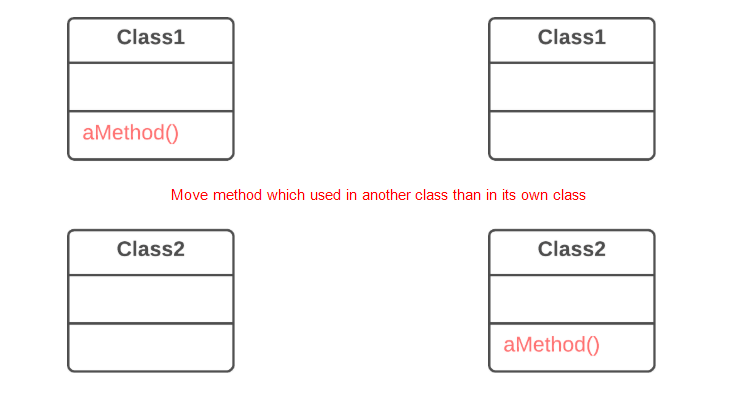


**Substitute Algorithm**

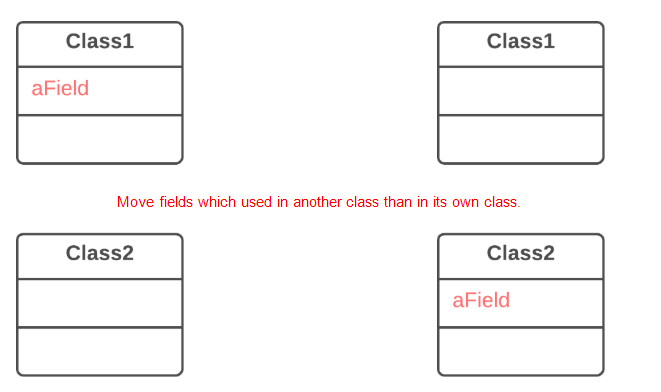
****

**Moving Features between Objects**

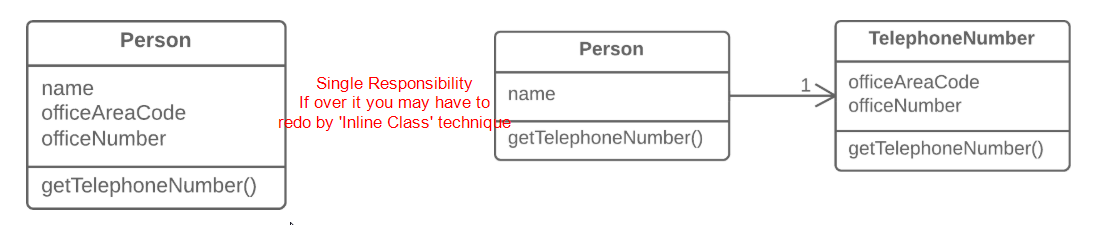
**Move Method**



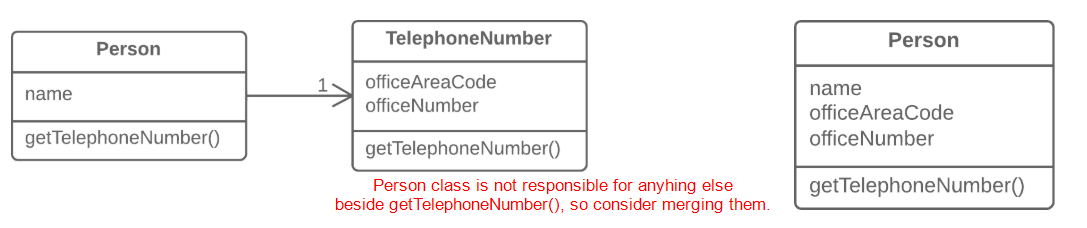
**Move Field**



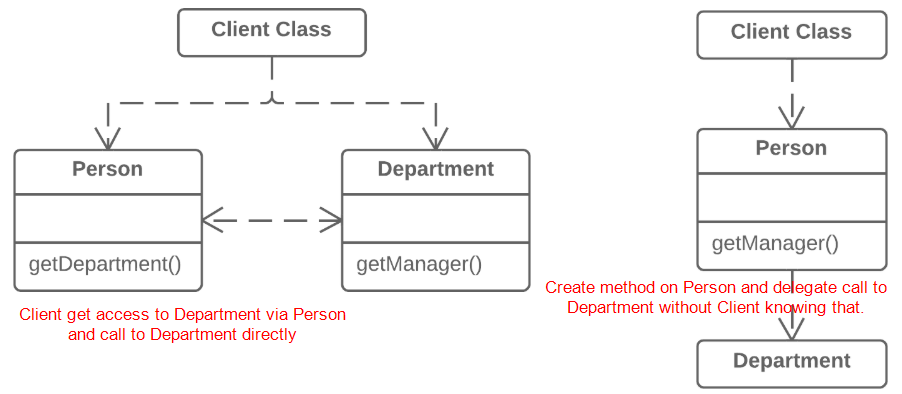
**Extract Class**



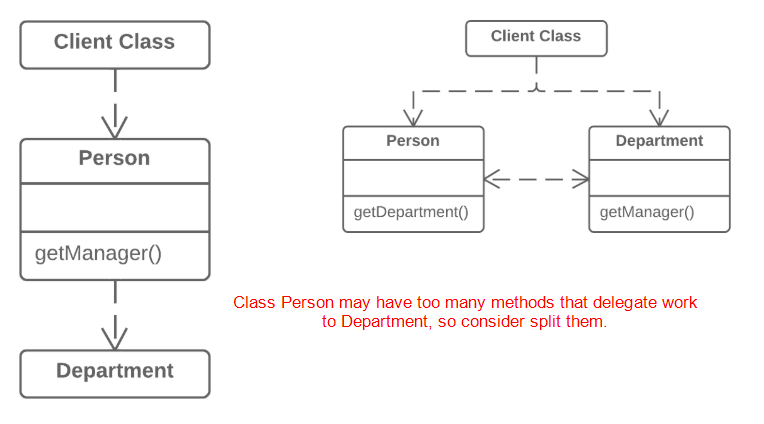
**Inline Class**



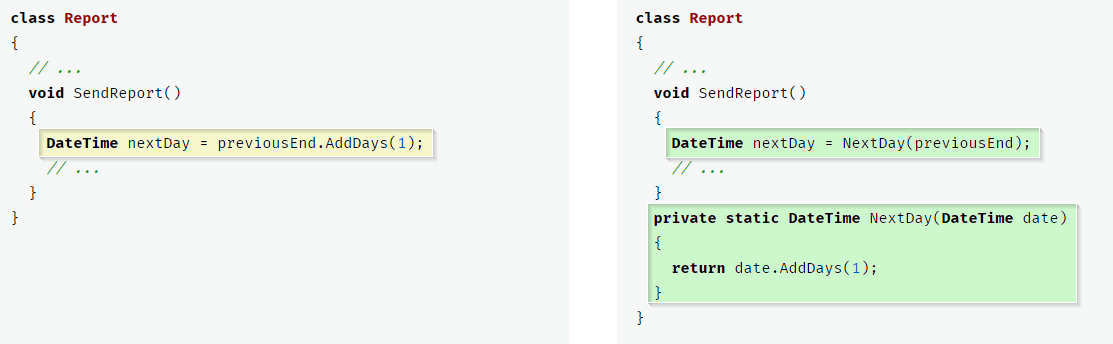
**Hide Delegate**



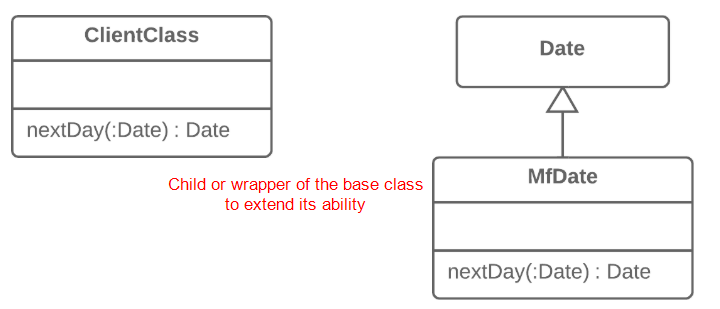
**Remove Middleman**



**Introduce Foreign Method**



**Introduce Local Extension**

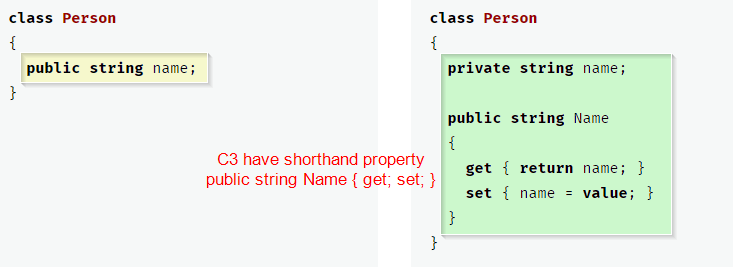


**Organizing Data**

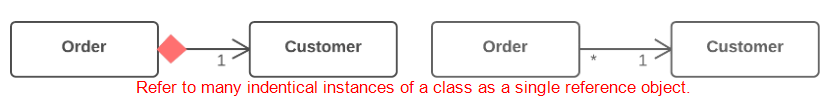
**Self-Encapsulate Field**

****

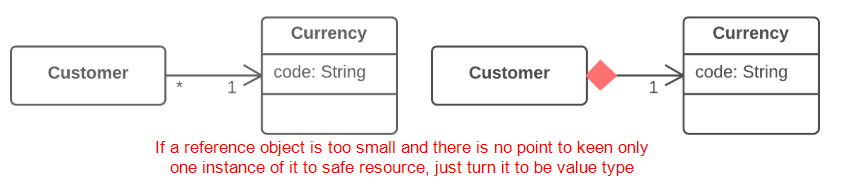
**Encapsulate Field**



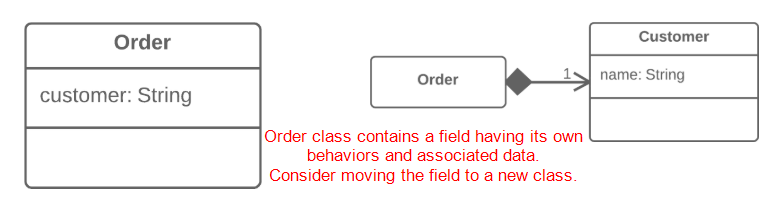
**Change Value to Reference**



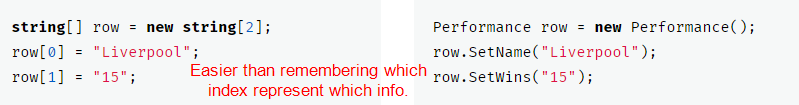
**Change Reference to Value**

****

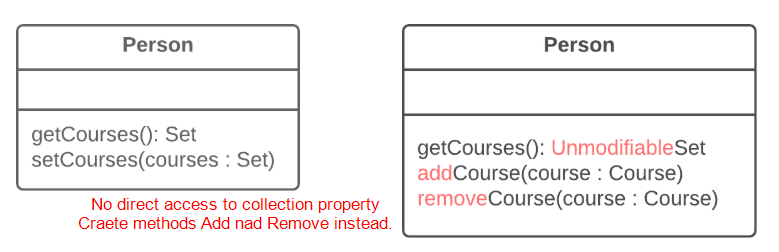
**Replace Data Value with Object**



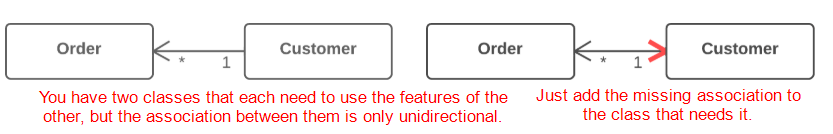
**Replace Array with Object**



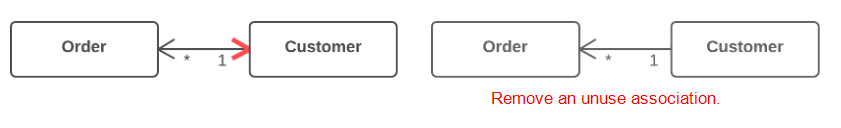
**Encapsulate Collection**



**Change Unidirectional Association to Bidirectional**



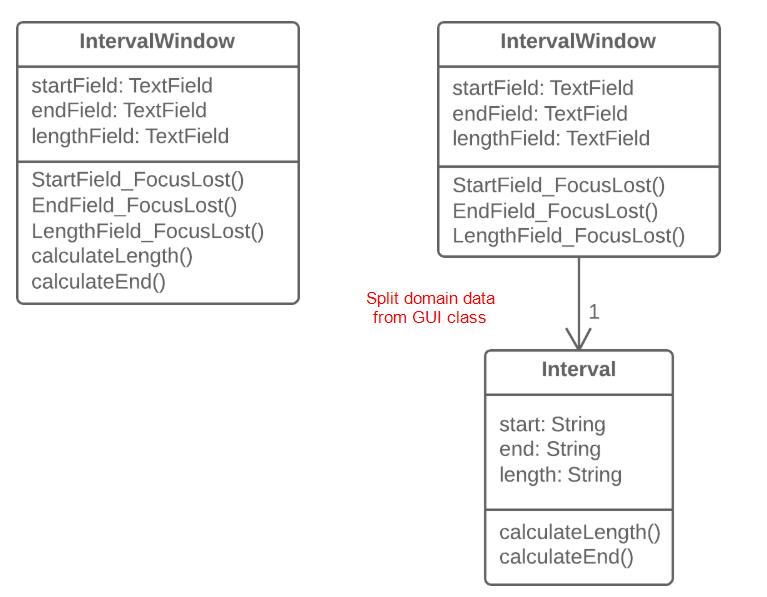
**Change Bidirectional Association to Unidirectional**

****

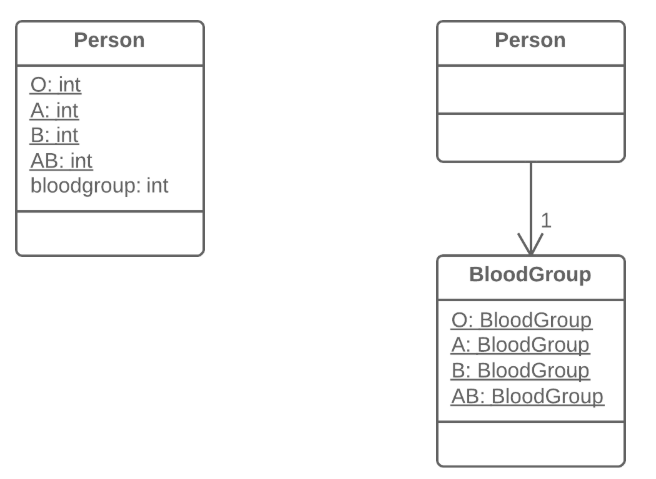
**Replace Magic Number with Symbolic Constant**



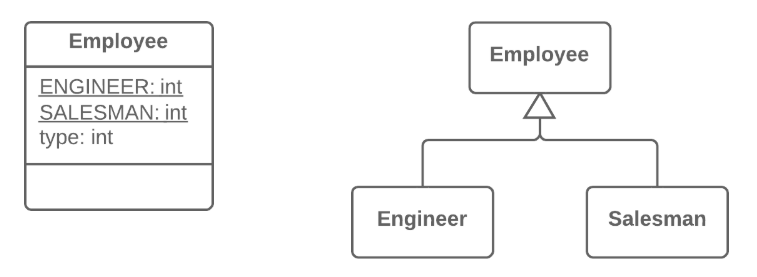
**Duplicate Observed Data**



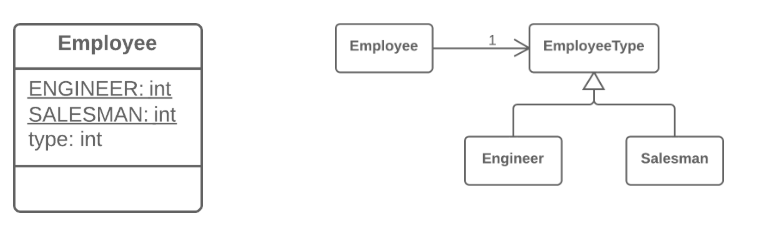
**Replace Type Code with Class**



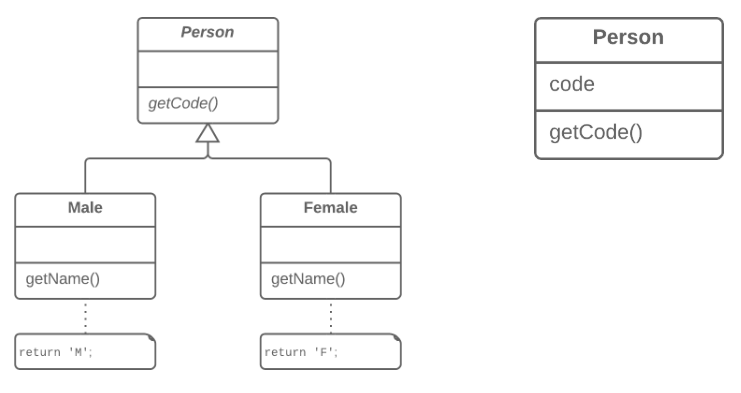
**Replace Type Code with Subclasses**



**Replace Type Code with State/Strategy**

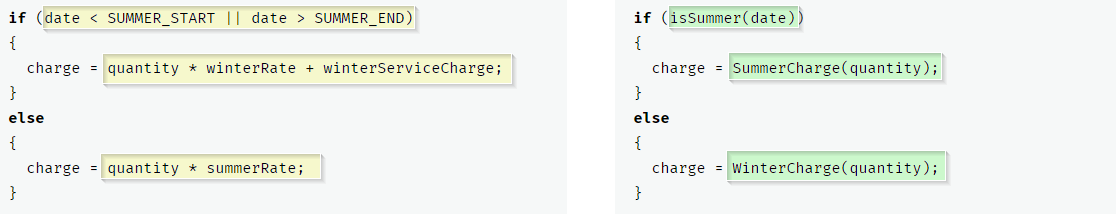


**Replace Subclass with Fields**

****

**Simplifying Conditional Expressions**

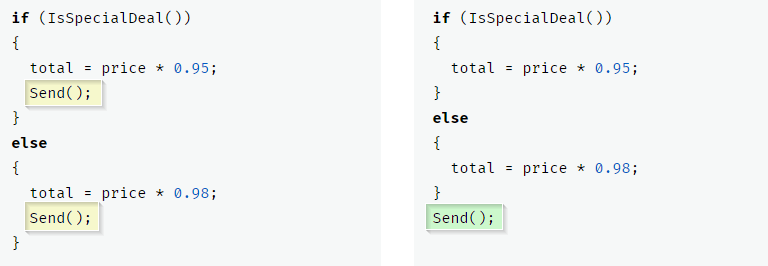
**Decompose Conditional**



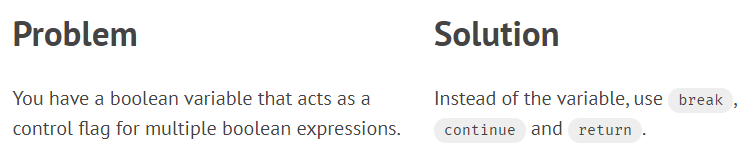
**Consolidate Conditional Expression**

****

**Consolidate Duplicate Conditional Fragments**



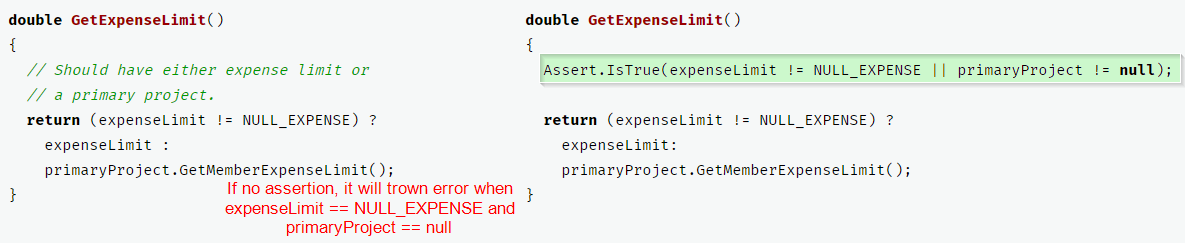
**Remove Control Flag**



**Replace Nested Conditional with Guard Clauses**

****

**Introduce Assertion**

****

**Replace Conditional with Polymorphism**



**Introduce Null Object**



### [**Simplifying Method Calls**](https://refactoring.guru/refactoring/techniques/simplifying-method-calls)

**Rename Method**

****

**Add Parameter**



**Remove Unused Parameter**



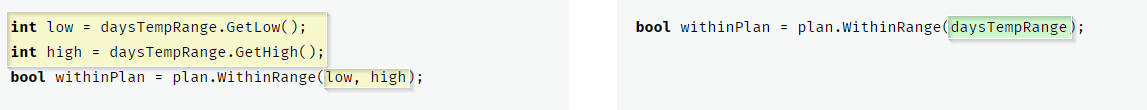
**Separate Query from Modifier**



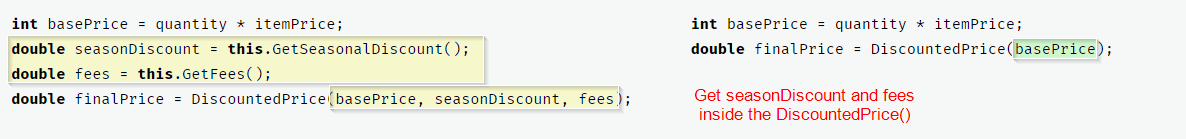
**Parameterize Method**

****

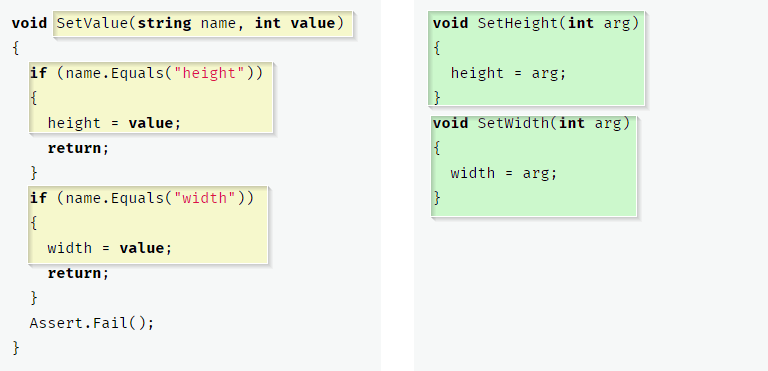
**Preserve Whole Object**

****

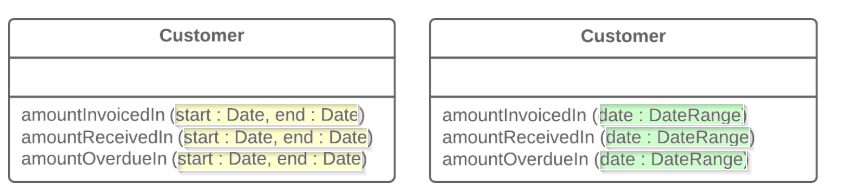
**Replace Parameter with Method Call**

****

**Replace Parameter with Explicit Methods**

****

**Introduce Parameter Object**

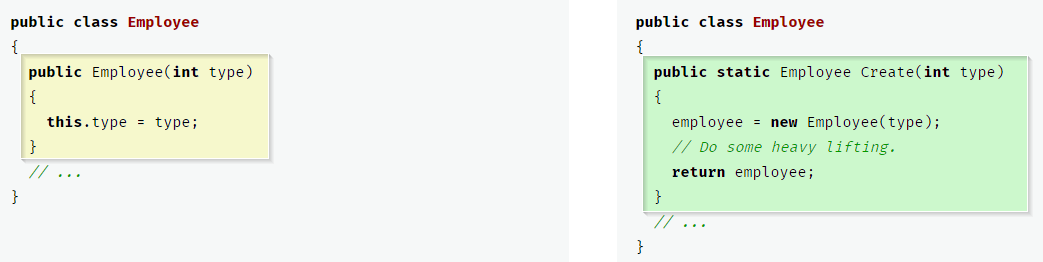


**Remove Setting Method for Immutable Fields**

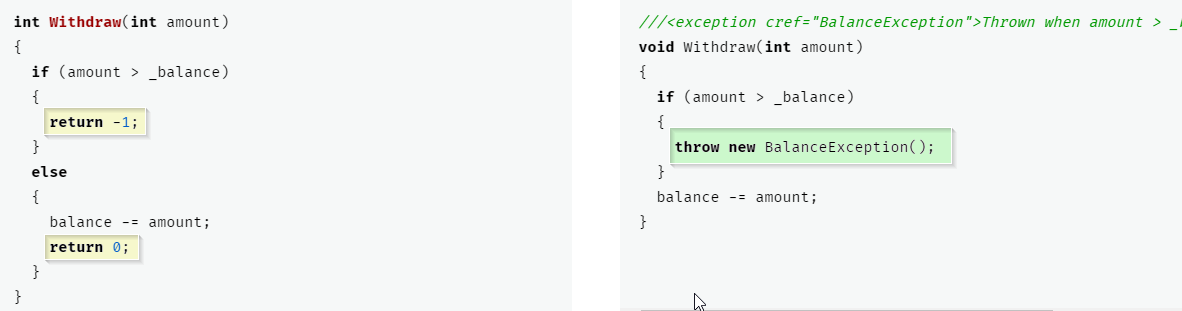
**Hide Method that should not be Public**



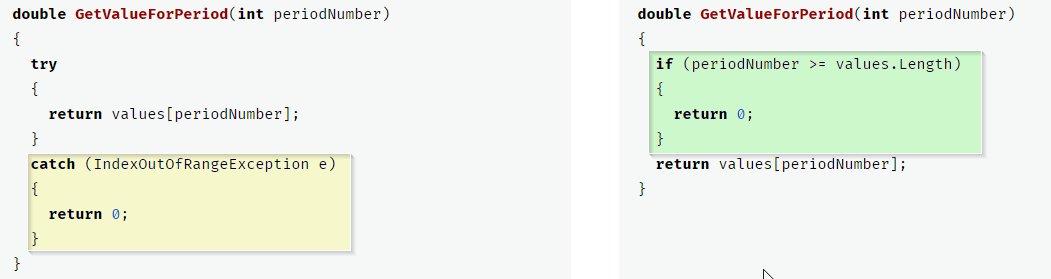
**Replace Constructor with Factory Method**



**Replace Error Code with Exception**

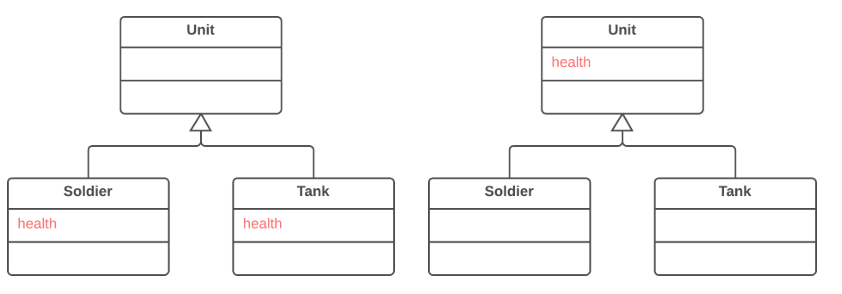


**Replace Exception with Test**

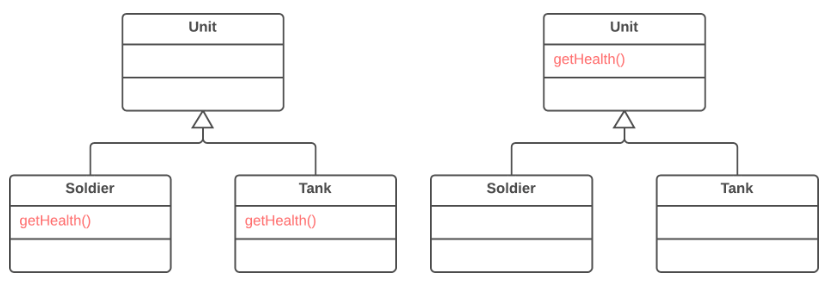


**Dealing with Generalization**

**Pull Up Field**



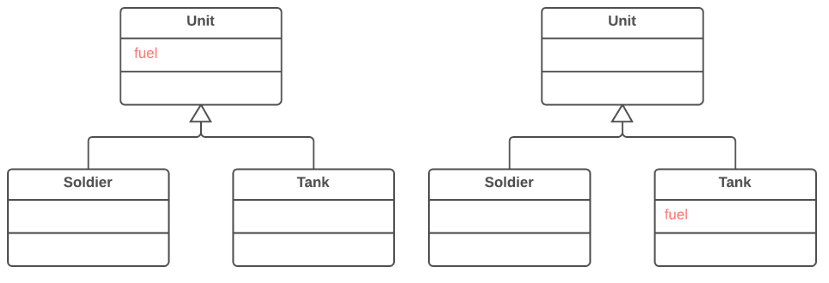
**Pull Up Method**



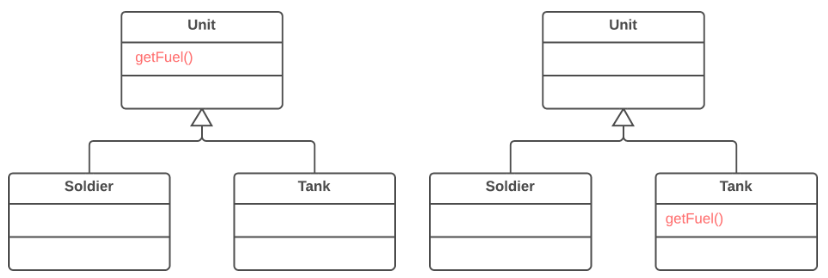
**Pull Up Constructor Body**



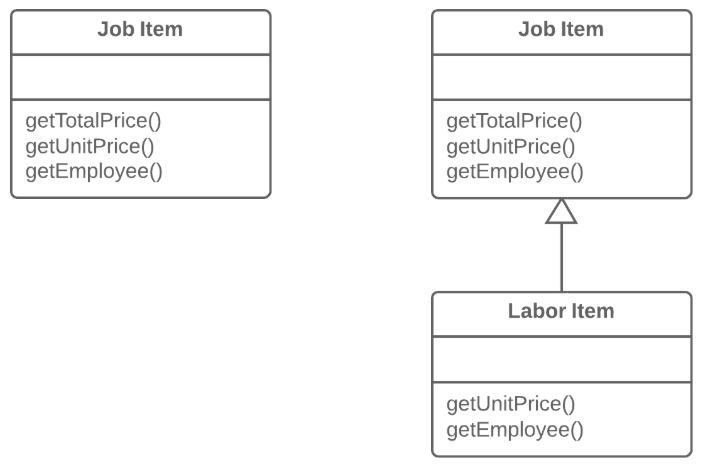
**Push Down Field**



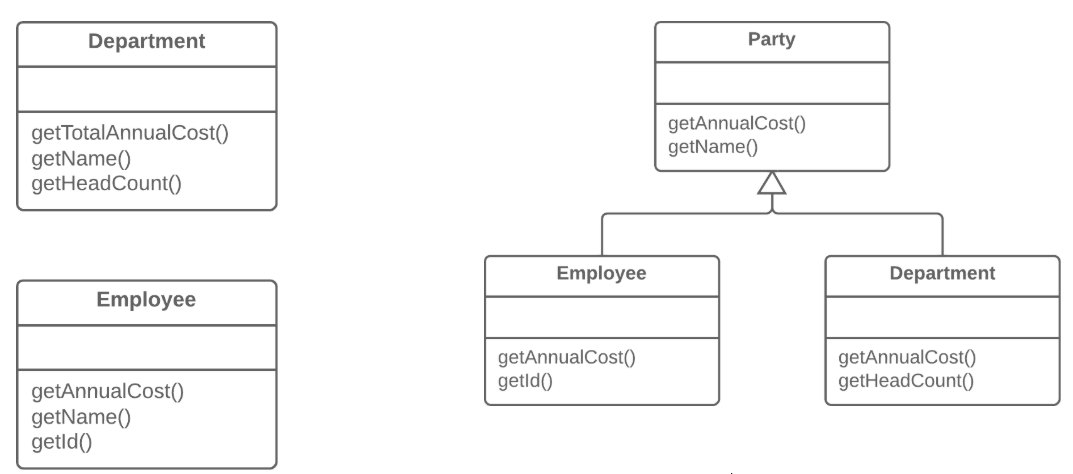
**Push Down Method**



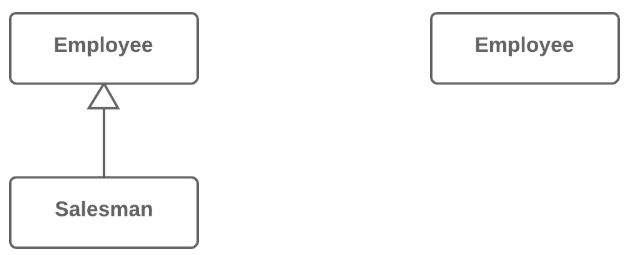
**Extract Subclass**



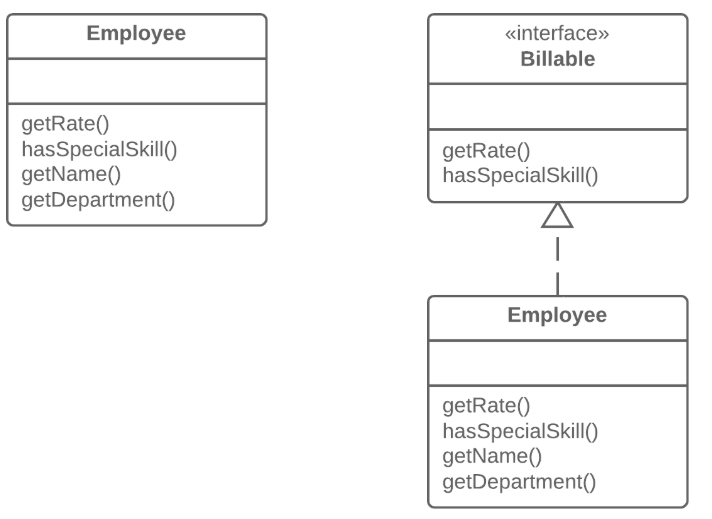
**Extract Superclass**



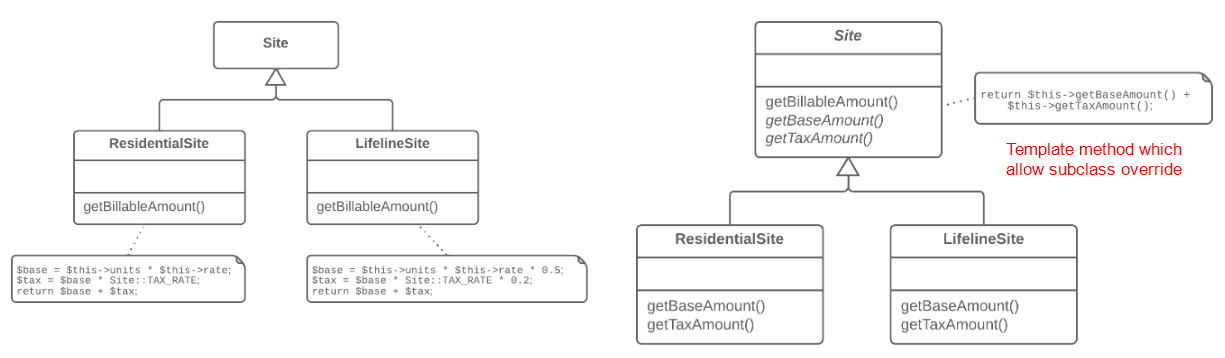
**Collapse Hierarchy**



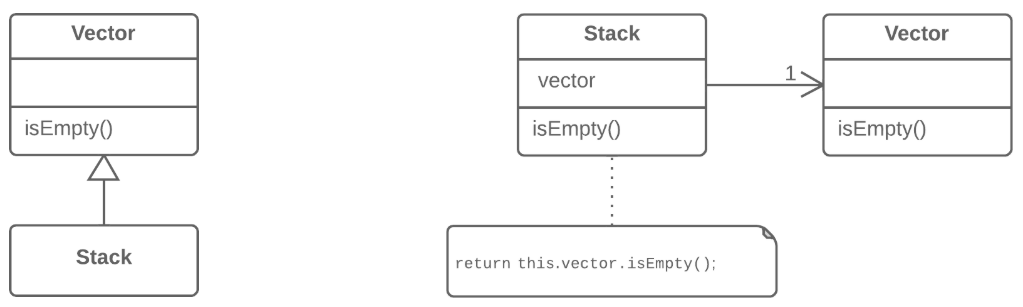
**Extract Interface**



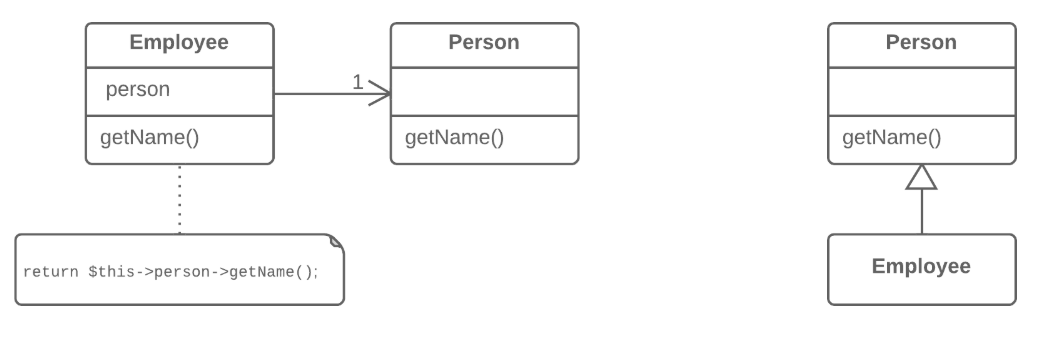
**Form Template Method**



**Replace Inheritance with Delegation**



**Replace Delegation with Inheritance**

****