Code Smell	Refactorings
Mysterious Name	Change Function Declaration, Rename Variable, Rename Field
<u>Duplicated Code</u>	Extract Function (sometimes with the help of Slide Statements first), Pull Up Method
Long Function	Extract Function (sometimes with the help of Replace Temp with Query first), Replace Function with Command, Decompose Conditional, Replace Conditional with Polymorphism, Split Loop
Long Parameter List	Replace Parameter with Query, Preserve Whole Object, Introduce Parameter Object, Remove Flag Argument, Combine Functions into Class
Global Data	Encapsulate Variable
Mutable Data	Encapsulate Variable, Split Variable, Slide Statements, Extract Function, Separate Query from Modifiers, Remove Setting Method, Replace Derived Variable with Query, Combine Functions into Class, Combine Functions into Transform, Change Reference to Value
Divergent Change	Split Phase, Move Function, Extract Function, Extract Class
Shotgun Surgery	Move Function, Move Field, Combine Functions into Class, Combine Functions into Transform, Split Phase, Inline Function, Inline Class
Feature Envy	Move Function, Extract Function
Data Clumps	Extract Class, Introduce Parameter Object, Preserve Whole Object
Primitive Obsession	Replace Primitive with Object, Replace Type Code with Subclasses, Replace Conditional with Polymorphism, Extract Class, Introduce Parameter Object
Repeated Switches	Replace Conditional with Polymorphism
Loops	Replace Loop with Pipeline
Lazy Element	Inline Function, Inline Class, Collapse Hierarchy

Speculative Generality	Collapse Hierarchy, Inline Function, Inline Class, Change Function Declaration, Remove Dead Code
Temporary Field	Extract Class, Move Function, Introduce Special Case
Message Chains	Hide Delegate, Extract Function, Move Function
Middle Man	Remove Middle Man, Replace Superclass with Delegate, Replace Subclass with Delegate
Insider Trading	Move Function, Move Field, Hide Delegate, Replace Subclass with Delegate, Replace Superclass with Delegate
Large Class	Extract Class, Extract Superclass, Replace Type Code with Subclasses
Alternative Classes with Different Interfaces	Change Function Declaration, Move Function, Extract Superclass
<u>Data Class</u>	Encapsulate Record, Remove Setting Method, Move Function, Extract Function
Refused Bequest	Push Down Method, Push Down Field, Replace Subclass with Delegate, Replace Superclass with Delegate
Comments	Extract Function, Change Function  Declaration, Introduce Assertion