Refactoring

Improving the Design of Existing Code

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# Chapter 1: Refactoring: A First Example

When you have to add a feature to a program but the code is not structured in a convenient way, first refactor the program to make it easy to add the feature, then add the feature.

## The First Step in Refactoring

Before you start refactoring, make sure you have a solid suite of tests. These tests must be self-checking.

## Decomposing the ‘statement’ Function

Try to identify points that separate different parts of the overall behavior.

Example: Long function with a large switch statement in the middle.

🡪 Extract function:

1. Extract the large switch statement to a function.
2. Check for variables that will no longer be in scope.