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**Refactoring Tool:**

We choose eclipse IDE for refactoring the code.

EMF Refactor is an Eclipse open source tool environment conveniently supporting a structured model quality assurance process. In particular, EMF Refactor supports metrics reporting, smell detection, and refactoring for models being based on the Eclipse Modeling Framework, a widely used open source technology in model-based software development

**Refactor feature:**

1. Extract Class

2. Extract Interface

3. Extract Superclass

4. Extract Method

5. Push Down

6. Extract Local Variable

7. Rename

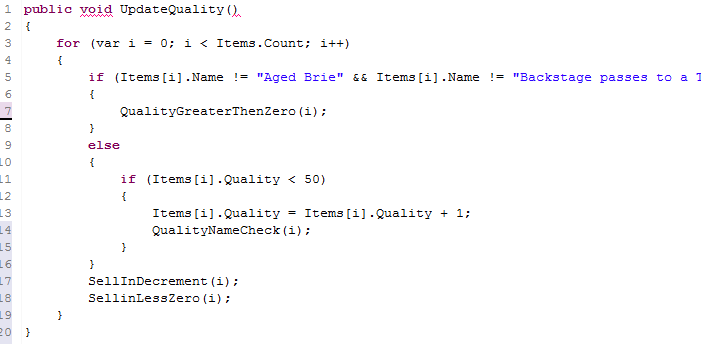
8. Change Method Signature

* **Code length before Refactor:**

Before refactoring the length of code is 75 lines.

* **Code length after Refactor:**

After refactoring the length of code is 20 lines.

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