Compose Method Pattern

Perils of Long Methods

- Hard to understand.

- Hard to maintain.

- Hard to reuse. They are quite broad.

- Promotes duplication.

- Hard to test.

- Hard to debug.

- Leads to poor cohesion.

- Leads to high coupling.

How long is long?

- # of lines is not a good indicator.

    - Depends on the language.

    - For verbose languages, we often write more lines of code.

- Code fitting into one window is also not a good indicator.

- **SLAP → Single Level of Abstraction Principle**

    - Every function/method or class should focus on one layer or one level of abstraction.

Compose Method Pattern

- A method should be composed of instructions at a single level of abstraction.

- To apply the compose method pattern, the extract method refactoring technique is often useful.

- The compose method pattern uses the principle called **SLAP**.