A screenshot of a computer code

Description automatically generated

Regex Analysis:

**Access Modifiers and Static Keyword**: Captures Java access modifiers (public, private, protected) and the static keyword at the start of a line, accounting for their optional presence.

**Return Type**: Matches any combination of alphanumeric characters and symbols (<, >, [, ]), likely representing generic types or arrays, indicative of method return types.

**Method Name**: Identifies the method name characterized by alphanumeric characters or underscores, followed by optional whitespace.

**Parameters**: Matches the method's parameters, enclosed in parentheses, allowing for any characters, thereby accommodating various parameter types and quantities.

**Opening Brace**: Searches for an optional opening brace that signals the beginning of the method body, ensuring flexibility in matching method declarations with or without an explicit body opening.

A close up of a card

Description automatically generated