Homework 3: Structural and Behavioral Design Patterns

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4. Extending the AST

(d) Visitor Design Pattern

The main benefit for using this design pattern is that we can can define a new operation to the Nodes without changing the implementation in all the Node classes, as we did for implementing search to a system with the Visitor interface. It follows the open/close principle where it is open for extension and closed for modification. Each visitor object has a state so can work independently.