## ATHENS - TUD15 Assignment 2 Group Z4QQQ

## 1. Write a natural language description of why and how the pattern is implemented in your code.

We used the Iterator Pattern.

WHY: We wanted to put the logic for the collision detection out of the PlayingState to the Borderelements. Therefore, we had to refactor some parts of the application. Afterwards, it made sense to use the iterator pattern to iterate over all border elements. We call the interact method for each element and check if there was a collision with the ball. If there was a collision, depending on the element, various methods are called (e.g., bouncing of the ball, increase score of player).

HOW: Since Java has built in support of the Iterator pattern within the Collections we used the iterator of the ArrayList Collection. The border container that has all borderelements stored in a list, delegates the iterator to our PlayingState object, where the iterator is used to check all borderelements for collision.



