Design Pattern Evidence #2

The code segment of the **Recipe** class demonstrates the Observer pattern through the **checkIngredientAvailability** method. Within this method, the **OnIngredientAvailabilityCheckedListener** interface functions as the observer, while **checkIngredientAvailability** serves as the subject. As the method iterates through each ingredient requirement to asynchronously verify its availability in the user's pantry, it does so independently of the observers. Upon completion of all ingredient checks, it notifies the observer (listener) through the **onAllIngredientsChecked** method, conveying whether all ingredients are accessible. By separating the subject from its observers, this design uses flexibility, enabling distinct handling mechanisms for ingredient availability without burdening the **Recipe** class with intricacies of specific actions.