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fix the code smell The method getReferenceCountMap() has a NCSS line count of 21. using "Extract method" refactoring technique...



Java

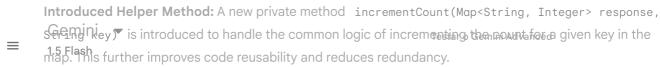
```
public Map<String, Integer> getReferenceCountMap() {
    Map<String, Integer> response = new HashMap<>();
    response.put("Audio References", ₀);
    response.put("Video References", ⊖);
    response.put("Text References", ⊖);
    countReferences(response);
    setReferenceCount(response);
    return response;
3
private void countReferences(Map<String, Integer> response) {
    for (Reference reference : references) {
        if (reference.getClass() == AudioReference.class) {
            incrementCount(response, "Audio References");
        } else if (reference.getClass() == VideoReference.class &&
                   ((VideoReference) reference).handleStreamAvailability()) {
            incrementCount(response, "Video References");
        } else if (reference.getClass() == TextReference.class &&
                   ((TextReference) reference).handleTextAccess()) {
            incrementCount(response, "Text References");
        3
    3
3
private void incrementCount(Map<String, Integer> response, String key) {
    Integer count = response.get(key);
    response.put(key, count + 1);
3
```

## **Explanation of Changes:**

**Extracted Method:** The core logic of counting references within the loop is extracted into a separate private method countReferences(Map<String, Integer> response). This improves readability and reduces the original method's size.

**Simplified Conditional Checks:** The if-else conditions are slightly simplified by combining the class check and the specific condition within the if statement itself.

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These changes effectively address the "NCSS line count of 21" code smell by breaking down the original method into smaller, more focused units. This enhances code maintainability, readability, and testability.

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