

IQ 1.2 "Check Permutation": Given two strings, write a method to decide if one is a permutation of the other.

Example:

"bat", "tab" → yes

"pizza", "pie" → No

Solution:

Non optimal: Sort both strings, then compare them one by one.

Optimal: Create an array based off the ASCII values to store frequency. Check if value of second array is same as first.

Code:

```
Public boolean isPerm(String a, String b) {  
    int [] freq = new int [128];  
    for (char c: a.toCharArray()) {  
        freq [(int) Character.toLowerCase(c)]++;  
    }  
    for (char c: b.toCharArray()) {  
        --freq [(int) Character.toLowerCase(c)];  
        if (freq [(int) Character.toLowerCase(c)] < 0)  
            return false;  
    }  
    return true;  
}
```