```java
public static String sort(String word) {
    StringBuilder builder = new StringBuilder(word);
    for (int i = 1; i < builder.length; i++) {
        char temp = builder.charAt(i);
        int j = i;
        while (j > 0 && builder.charAt(j - 1) > temp) {
            builder.setCharAt(j, builder.charAt(j - 1));
            j--;
        }
        builder.setCharAt(j, temp);
    }
    return builder.toString();
}

public static boolean isAnagram(String word1, String word2) {
    if (word1.length() != word2.length()) {
        return false;
    }
    word1 = sort(word1);
    word2 = sort(word2);

    for (int i = 0; i < word1.length(); i++) {
        if (word1.charAt(i) != word2.charAt(i)) {
            return false;
        }
    }
    return true;
}
```