

# Problem 1247: Minimum Swaps to Make Strings Equal

## Problem Information

**Difficulty:** Medium

**Acceptance Rate:** 65.06%

**Paid Only:** No

**Tags:** Math, String, Greedy

## Problem Description

You are given two strings `s1` and `s2` of equal length consisting of letters `'x'` and `'y'` **only**. Your task is to make these two strings equal to each other. You can swap any two characters that belong to **different** strings, which means: swap `s1[i]` and `s2[j]`.

Return the minimum number of swaps required to make `s1` and `s2` equal, or return `-1` if it is impossible to do so.

**Example 1:**

**Input:** `s1 = "xx", s2 = "yy"` **Output:** `1` **Explanation:** Swap `s1[0]` and `s2[1]`, `s1 = "yx", s2 = "yx"`.

**Example 2:**

**Input:** `s1 = "xy", s2 = "yx"` **Output:** `2` **Explanation:** Swap `s1[0]` and `s2[0]`, `s1 = "yy", s2 = "xx"`. Swap `s1[0]` and `s2[1]`, `s1 = "xy", s2 = "xy"`. Note that you cannot swap `s1[0]` and `s1[1]` to make `s1` equal to `"yx"`, cause we can only swap chars in different strings.

**Example 3:**

**Input:** `s1 = "xx", s2 = "xy"` **Output:** `-1`

**Constraints:**

\* `1 <= s1.length, s2.length <= 1000` \* `s1.length == s2.length` \* `s1, s2` only contain `x` or `y`.

## Code Snippets

### C++:

```
class Solution {  
public:  
    int minimumSwap(string s1, string s2) {  
  
    }  
};
```

### Java:

```
class Solution {  
    public int minimumSwap(String s1, String s2) {  
  
    }  
}
```

### Python3:

```
class Solution:  
    def minimumSwap(self, s1: str, s2: str) -> int:
```