Given two strings **s1** and **s2**, write a function to return true if **s2** contains the permutation of **s1**. In other words, one of the first string's permutations is the **substring** of the second string.

**Example 1:**

**Input:** s1 = "ab" s2 = "eidbaooo"

**Output:** True

**Explanation:** s2 contains one permutation of s1 ("ba").

**Example 2:**

**Input:**s1= "ab" s2 = "eidboaoo"

**Output:** False

**Note:**

1. The input strings only contain lower case letters.
2. The length of both given strings is in range [1, 10,000].