Interleaving String

Given strings s1, s2, and s3, find whether s3 is formed by an **interleaving** of s1 and s2.

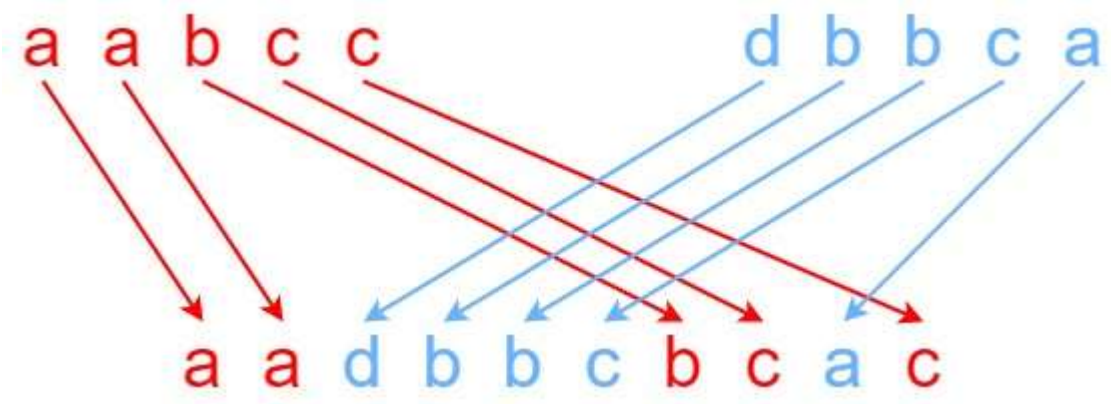
An **interleaving** of two strings s and t is a configuration where s and t are divided into n and m substrings

respectively, such that:

- $s = s_1 + s_2 + ... + s_n$
- $t = t_1 + t_2 + ... + t_m$
- $|n - m| <= 1$
- The **interleaving** is $s_1 + t_1 + s_2 + t_2 + s_3 + t_3 + ...$ or $t_1 + s_1 + t_2 + s_2 + t_3 + s_3 + ...$

Note: a + b is the concatenation of strings a and b.

Example 1:



Input: s1 = "aabcc", s2 = "dbbca", s3 = "aadbbcbcac"

Output: true

Explanation: One way to obtain s3 is:

Split s1 into s1 = "aa" + "bc" + "c", and s2 into s2 = "dbbc" + "a".

Interleaving the two splits, we get "aa" + "dbbc" + "bc" + "a" + "c" = "aadbbcbcac".

Since s3 can be obtained by interleaving s1 and s2, we return true.

Example 2:

Input: s1 = "aabcc", s2 = "dbbca", s3 = "aadbbbaccc"

Output: false

Explanation: Notice how it is impossible to interleave s2 with any other string to obtain s3.

Example 3:

Input: s1 = "", s2 = "", s3 = ""

Output: true

Constraints:

- 0 <= s1.length, s2.length <= 100
- 0 <= s3.length <= 200
- s1, s2, and s3 consist of lowercase English letters.