🐧 LeetCoding Challenge + GIVEAWAY! 🎁 🗴 *i* {} 5 ⊙ □ Description i Java 

◆ Autocomplete 1 v class Solution {
2 v public int shortestWay(String source, String target) { 1055. Shortest Way to Form String Medium ௴ 744 ♀ 43 ♡ Add to List ௴ Share A **subsequence** of a string is a new string that is formed from the original string by deleting some (can be none) of the characters without disturbing the relative positions of the remaining characters. (i.e., "ace" is a subsequence of "abcde" while "aec" is not). Given two strings source and target, return the minimum number of subsequences of source such that their concatenation equals target. If the task is impossible, return -1. Example 1: Input: source = "abc", target = "abcbc" Output: 2 Explanation: The target "abcbc" can be formed by "abc" and "bc", which are subsequences of source "abc". Example 2: Input: source = "abc", target = "acdbc" Output: −1 Explanation: The target string cannot be constructed from the subsequences of source string due to the character "d" in target string.

Example 3: Input: source = "xyz", target = "xzyxz" Output: 3 Explanation: The target string can be constructed as follows "xz" + "y" + "xz". **Constraints:** • 1 <= source.length, target.length <= 1000 • source and target consist of lowercase English letters. Accepted 51,870 Submissions 89,594 Seen this question in a real interview before? Yes No Companies 🛅 i 0 ~ 6 months 6 months ~ 1 year 1 year ~ 2 years Google | 3 String Dynamic Programming Greedy Similar Questions Is Subsequence Easy Number of Matching Subsequences Medium Hide Hint 1 Which conditions have to been met in order to be impossible to form the target string? Hide Hint 2 If there exists a character in the target string which doesn't exist in the source string then it will be impossible to form the target string. Hide Hint 3 Assuming we are in the case which is possible to form the target string, how can we assure the minimum number of used subsequences of source? Hide Hint 4 For each used subsequence try to match the leftmost character of the current subsequence with the

leftmost character of the target string, if they match then erase both character otherwise erase just the

subsequence character whenever the current subsequence gets empty, reset it to a new copy of subsequence and increment the count, do this until the target sequence gets empty. Finally return the

count.