

1143. Longest Common Subsequence

Medium

👍 8608

💬 100

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Given two strings `text1` and `text2`, return *the length of their longest **common subsequence***. If there is no **common subsequence**, return `0`.

A **subsequence** of a string is a new string generated from the original string with some characters (can be none) deleted without changing the relative order of the remaining characters.

- For example, `"ace"` is a subsequence of `"abcde"`.

A **common subsequence** of two strings is a subsequence that is common to both strings.

Example 1:

Input: `text1 = "abcde", text2 = "ace"`

Output: `3`

Explanation: The longest common subsequence is `"ace"` and its length is `3`.

Example 2:

Input: `text1 = "abc", text2 = "abc"`

Output: `3`

Explanation: The longest common subsequence is `"abc"` and its length is `3`.

Example 3:

Input: `text1 = "abc", text2 = "def"`

Output: `0`

Explanation: There is no such common subsequence, so the result is `0`.