DP30: [Minimum Insertions/Deletions to Convert String A to String B](https://www.codingninjas.com/codestudio/problems/can-you-make_4244510?source=youtube&campaign=striver_dp_videos&utm_source=youtube&utm_medium=affiliate&utm_campaign=striver_dp_videos) - extension to LCS

Example: str1 = “abcd”, str2 = “anc”

o/p: 3 (2 deletion for ‘b’ and ‘d’ + 1 insertions for ‘n’)

**Approach:** Number of insertions/deletions = n + m - (2\* LCS)

We need to convert A to B; so for that we have to delete some characters from str1 that are not in str2 and insert some characters in str1 that are in str2

Example- str1 = “abcd”, str2 = “anc”

=> here LCS is “ac” and we can see that here if we delete b and d and insert n in str1 then

=> Str1 = “anc”

* Number of Insertions = N(str1 length) - LCS(length of LCS)
* Number of deletions = M(str2 length) - LCS(length of LCS)

=>operations = 4 + 3 - (2\*2) = 7-4 = 3