

Constraints:

Then

- 1 <= word1.length, word2.length <= 500
- word1 and word2 consist of only lowercase English letters.

To make the minimum deletion operations, we should not delete the characters that are same in both words.

Get the LCS of words and words

deletions required = m - LCS + n - LCS

i.e. Now the problem got reduced to problem of finding Les. # 1143

[(n): [(n) of LCS S(n): S(n) of LCS

```
int minDistance(string text1, string text2) {
    int m = text1.length();
    int n = text2.length();
    vector<int> prev(n + 1, 0);
    for (int i = 1; i <= m; i++) {
        vector<int> curr(n + 1, 0);
        for (int j = 1; j \le n; j++) {
            int val;
            if (text1[i - 1] == text2[j - 1])
                val = 1 + prev[j - 1];
            else
                val = max(prev[j], curr[j - 1]);
            curr[j] = val;
        prev = curr;
    }
    int lcs = prev[n];
    return m - lcs + n - lcs;
}
```