- 1. DP. O(nm).
- 2. edit distance is similar to LCS. see the reference for 516. Longest Palindromic Subsequence. $O(\frac{nm}{\log n})$ for constant alphabet size [1].

References

[1] William J Masek and Michael S Paterson. A faster algorithm computing string edit distances. Journal of Computer and System sciences, 20(1):18-31, 1980.