Dear Candidate,

This challenge will give us a good view of your coding skills. If you choose to research this challenge on the internet and get help from coding platforms/individuals, please let us know the resource (s) used in solving this challenge.

Cheers

Quoori Peoples Team

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New Candidates Programming Challenge.

Levenshtein Algorithm

The challenge needs to be done either in pure Java or pure Go

Pure means, there is no third-party source code include while solving this challenge.

Make everything UTF-8 compliant.

Use Wikipedia for research.

1. Implement a Levenshtein method returning

the distance between token 1 and token 2.

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Java: int *levenshtein(String token1, String token2)*

*Go: func levenshtein(token1 string, token2 string) int*

*Hints:*

*Implement the algorithm w/o allocating the full matrix,*

*but an optimized version, which allocates only one column*

*at a time.*

*Go: use runes internally.*

*2. Use this test-case:*

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*Haus, Maus => 1*

*Haus, Mausi => 2*

*Haus, Häuser => 3*

*Kartoffelsalat, Runkelrüben => 12*

3. Implement a modified version which makes

an early exit if the distance exceeds a maximum

distance. Return maxDist + 1 in this case.

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Java: int *levenshtein(String token1, String token2, int maxDist)*

*Go: func levenshtein(token1 string, token2 string, maxDist int) int*

*4. Use the same test-case (yields different output now):*

*--------------------------------------------------------*

*Haus, Maus, 2 => 1*

*Haus, Mausi, 2 => 2*

*Haus, Häuser, 2 => 3*

*Kartoffelsalat, Runkelrüben, 2 => 3*

*5. Implement a performance measurement on all test-cases and both*

*variants of implementation.*

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