

FO076--MON-6=7 Imput: Two segnemens of letters 12. - m) ad B[1. . . m) at mt: The number of nimed colit operation of the to amount Ating to Blind O bibi. ... by R 

Tb, -b- - - - - - - - - - - -Edit('i') = min author of operations required to someont. Min...) to Str.--i). Edirl(m,n) - Don amswer. (1+) Edit (1-1,j-1) if 9; # 9; # 9; (1+) Edit (1,j-1) if 9; # 9; # 9; (1+) Edit (1-1,j) min { Edit (1-1, j-1) +1. if aisign Edit (1-1, j-1) +1. 51--- Gi

5 a = = d -> = = d delet a b Lcd, Desc. proof. Edit (i))) DS. Enithering EDITTINI (- edit (i))

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EDITDISTANCE (A[1..m], B[1..n]):

for j \leftarrow 0 to n

Edit[0, j] \leftarrow j

for i \leftarrow 1 to m

Edit[i, 0] \leftarrow i

for j \leftarrow 1 to n

ins \leftarrow Edit[i, j-1]+1

del \leftarrow Edit[i-1, j]+1

if A[i] = B[j]

rep \leftarrow Edit[i-1, j-1]

else

rep \leftarrow Edit[i-1, j-1]+1

Edit[i, j] \leftarrow \min\{ins, del, rep\}

return Edit[m, n]
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Space complexity = O (n.m)

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