

function MIN-EDIT-DISTANCE(*target*, *source*) **returns** *min-distance*

$n \leftarrow \text{LENGTH}(\textit{target})$

$m \leftarrow \text{LENGTH}(\textit{source})$

Create a distance matrix $\textit{distance}[n+1, m+1]$

$\textit{distance}[0, 0] \leftarrow 0$

for each column i **from** 0 **to** n **do**

for each row j **from** 0 **to** m **do**

$\textit{distance}[i, j] \leftarrow \text{MIN}(\textit{distance}[i-1, j] + \textit{ins-cost}(\textit{target}_i),$
 $\textit{distance}[i-1, j-1] + \textit{subst-cost}(\textit{source}_j, \textit{target}_i),$
 $\textit{distance}[i, j-1] + \textit{del-cost}(\textit{source}_j))$