

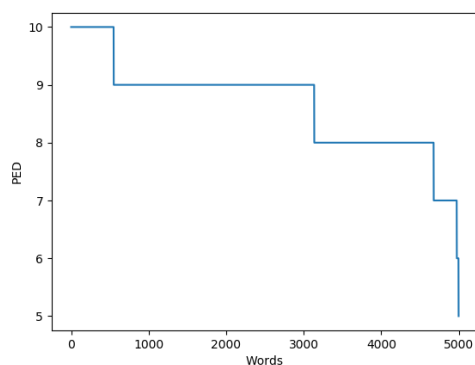
Task14

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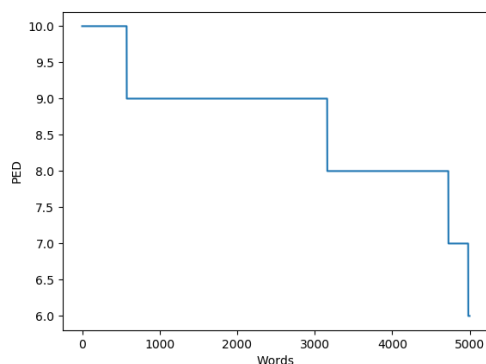
Artificial Intelligence for the Web, VT21
DT506A

16 april 2021

This task is about implementing a function that computes the prefix edit distance. To make it a little challenging to know how good the algorithm is, two lists have been created with 5000 random strings of length 10 in each, see line 46-48 in Task14.py. The algorithm itself is taken from ¹, but also modified to calculate PED. The algorithm works pretty well, fast enough I guess. Because the lists contain random strings, it is difficult to get reliable measurements. Below are two plots that show the number of PEDs for the y-axis and for which strings the x-axis.



(a) Result 1



(b) Result 2

Figure 1: Plots of PED

¹https://en.wikibooks.org/wiki/Algorithm_-_Implementation/Strings/Levenshtein_distance