NOTES ON LEVENSHTEIN DISTANCE

ERIC MARTIN

← Deletion (cost 1) of a letter x in first word: x
↓ Insertion (cost 1) of a letter x in second word: ∗x
✓ Match (cost 0) of the same letter x in both words: x

Substitution (cost 2) of a letter x in first word by a different letter y in second word: xy

d | 7 | 6 ← 7 | 6 | 5 | 4 ← 5
r | 6 ← 7 | 6 | 5 | 4 | 3 ← 4
a | 5 ← 6 | 5 | 4 | 3 ← 4 ← 5
p | 4 ← 5 | 4 | 3 ← 4 ← 5 ← 6
o | 3 ← 4 | 3 ← 4 ← 5 ← 6 ← 7
e | 2 ← 3 | 2 ← 3 ← 4 ← 5 ← 6
l | 1 ← 2 | 2 ← 3 ← 4 ← 5 ← 6
· | 0 ← 1 ← 2 ← 3 ← 4 ← 5 ← 6

* d e * p a r * t d * e * p a r * t d e * p a r * t
l * e o p a r d * l e o p a r d * l e o p a r d *

* d e * p a r t * d * e * p a r t * d e * p a r t *
l * e o p a r * d * l e o p a r * d l e o p a r * d

* d e * p a r t d * e * p a r t d e * p a r t
l * e o p a r d l e o p a r d l e o p a r d

COMP9021 Principles of Programming

Date: Session 1, 2016.