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Appendix A

Algorithms Used in the Research

Levenshtein distance

```
1 : initialize integer matrix d
2 : initialize integer n, m, i, j
3 : initialize character s_i
4 : initialize character t_j
5 : initialize string temp
6 : initialize integer cost
7 : n equals length s
8 : m equals length t
9 : if n equals 0
10 : return m
11 : if m equals 0
12 : return n
13 : if n greater than m
14 : temp equals s
15 : s equals t
16 : t equals temp
17 : n equals m
18 : m equals length of t
19 : d equals new integer n+1, m+1
20 : for i equals 0 to i less than or equals n increment i
21 : d[ i],[0] equals i
22 : for j equals 0 to j less than or equals m increment j
23 : d[0][j] equals j
24 : for i equals 1 to i less than or equals n increment i
25 : s_i equals character at i-1 of s
26 : for j equals 1 to j less than or equals m increment j
27 : t_j equals character at j-1 of t
28 : if s_i equals t_j
```

29 : cost equals zero

30 : else

31 : cost equals 1

32 : d[i][j] equals minimum of d[i-1][j]+1 or d[i][j-1]+1 or d[i-1][j-1]+ cost

33 : return d[n][m]

Source : http://www.merriampark.com/ld.htm