

PARK

SPARK

	j	P	A	R	K
i	0	1	2	3	4
S	1	1	2	3	4
P	2	1	2	3	4
A	3	2	1	2	3
K	4	3	2	2	2
E	5	4	3	3	(3)

$$\min(d(i-1, j) + 1,$$

$$d(i, j-1) + 1,$$

$$d(i-1, j-1) + 1$$

$$(i \neq j) + 0$$

$$(i = j)$$

edit distance

find

given

Done

calculations

edit distance

using DP

# Practice number One

	j	K	I	T	L	H	E	N
i	0	1	2	3	4	5	6	7
K	1	0	1	2	3	4	5	6
I	2	1	0	1	2	3	4	5
T	3	2	1	0	1	2	3	4
T	4	3	2	1	1	2	3	4
E	5	4	3	2	2	2	2	3
N	6	5	4	3	3	3	3(2)	

Edit Distance  
 farmer  
 output

using (2)

Edit distance

(algorithm)

DP

NLP end Sem - 2016

( Edited: once  
Question )

ins = 2

del = 2

Subst = 1

		j	w	r	o	n	g
j	0	1	2	3	4	5	
w	1	0	2	3	4	5	
r	2	2	1	3	5	5	
n	3	3	3	2	3	5	
g	4	4	4	4	3	3	
s	5	5	5	5	5	<u>4</u>	

W I N G S <sup>1+2</sup>  
↑  
W R O N G S (5)

W I N G S

W R O N G S

7 ( Substitution  
are done )