

Algorithms and complexity

1. Longest common subsequence with dynamic programming

8 pts.

adorably

arguably

วิชา วิทยาการคอมพิวเตอร์ 59090500426 NTH
 Algorithm and Complexity

1. LCS seems Adorably or arguably

	A	r	g	u	a	b	l	y
A	0	0	0	0	0	0	0	0
d	0	1	1	1	1	1	1	1
O	0	1	1	1	1	1	1	1
r	0	1	2	2	2	2	2	2
a	0	1	2	2	2	3	3	3
b	0	1	2	2	2	3	4	4
l	0	1	2	2	2	3	4	5
y	0	1	2	2	2	3	4	5

Sequence = a r a b l y 6 ตัว

2. Edit distance vs alliance or ambience

	a	m	b	i	a	n	c	e
a	0	1	2	3	4	5	6	7
l	1	0	1	2	3	4	5	6
l	2	1	1	2	3	4	5	6
i	3	2	2	2	3	4	5	6
a	4	3	3	3	2	3	4	5
n	5	4	4	4	3	2	3	4
c	6	5	5	5	4	3	2	3
e	7	6	6	6	5	4	3	2

b → L

m → L

alliance

a--iance

MDDMMMMM

edit distance = 2