



CS 5012: Foundations of Computer Science

Computing LCS Using the Table Method

	j	0	1	2	3	4	5	6	7	8	9
i			A	L	I	G	N	M	E	N	T
0		0	0	0	0	0	0	0	0	0	0
1	A	0	↖1	←1	←1	←1	←1	←1	←1	←1	←1
2	L	0	↑1	↖2	←2	←2	←2	←2	←2	←2	←2
3	G	0	↑1	↑2	↑2	↖3	←3	←3	←3	←3	←3
4	O	0	↑1	↑2	↑2	↑3	↑3	↑3	↑3	↑3	←3
5	R	0	↑1	↑2	↑2	↑3	↑3	↑3	↑3	↑3	←3
6	I	0	↑1	↑2	↖3	↑3	↑3	↑3	↑3	↑3	←3
7	T	0	↑1	↑2	↑3	↑3	↑3	↑3	↑3	↑3	↖4
8	H	0	↑1	↑2	↑3	↑3	↑3	↑3	↑3	↑3	↑4
9	M	0	↑1	↑2	↑3	↑3	↑3	↖4	←4	←4	↑4

Output: algt