

CS 5012: Foundations of Computer Science

Alanna Hazlett

uwa6xv

10/16/2024

In class review:

Calculate the 10th number in the Fibonacci sequence using memoization.

Compute the Longest Common String (LCS) between LEAR and EARN

	j	0	1	2	3	4
i			E	A	R	N
0						
1	L					
2	E					
3	A					
4	R					

In class group assignment:

Compute the Longest Common String (LCS) between ALGORITHM and ALIGNMENT

	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	D2	<2	<2	<2	<2	<2	<2	<2
3	G	0	^1	^2	^2	D3	<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	D3	^3	^3	^3	^3	^3	^3
7	T	0	^1	^2	^3	^3	^3	^3	^3	^3	D4
8	H	0	^1	^2	^3	^3	^3	^3	^3	^3	^4
9	M	0	^1	^2	^3	^3	^3	D4	<4	<4	^4

ALGT