

CS E221

Assignment 4

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Section: 9

1a) String 1: 24301500
 i) String 2: 24170300

ii) Lcs: 24300
 24100
 24000

b) i) 24301500
 20251905

	x	2	4	3	0	1	5	0	0
x	0	0	0	0	0	0	0	0	0
2	0	1↖	1←	1←	1←	1←	1←	1←	1←
0	0	1↑	1←	1←	2↖	2←	2←	2↖	2↖
2	0	1↖	1←	1←	2↑	2←	2←	2←	2←
5	0	1↑	1←	1←	2↑	2←	3↖	3←	3←
1	0	1↑	1←	1←	2↑	3↖	3←	3←	3←
9	0	1↑	1←	1←	2↑	3↑	3←	3←	3←
0	0	1↑	1←	1←	2↖	3↑	3←	4↖	4↖
5	0	1↑	1←	1←	2↑	3↑	4↖	4←	4←

length = 4

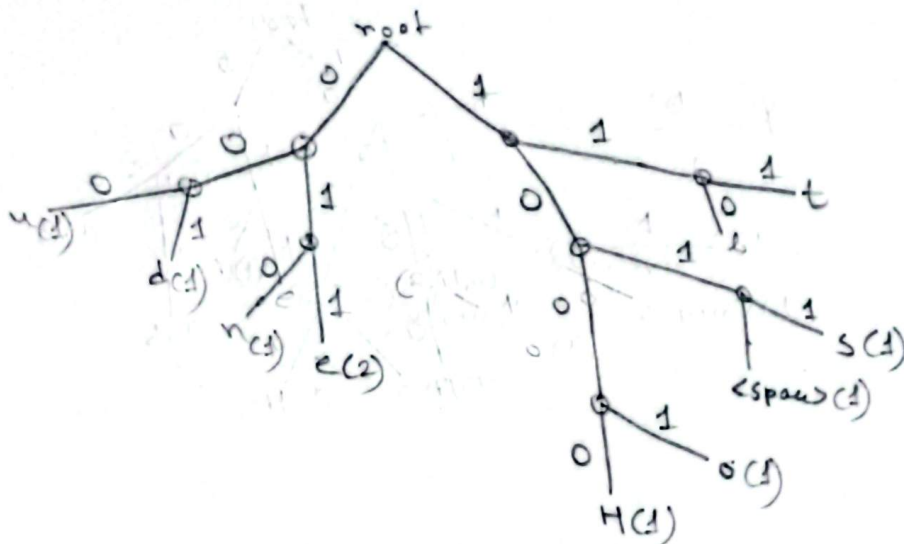
iv) 2015

3. leaf nodes except e, l, t is 1

left - 5 (of main root)
right - 8

a) b)

6)



c) $e \rightarrow 2$
 $l \rightarrow 2$
 $t \rightarrow 2$

4.a) credits = 9

		0	1	2	3	4	5	6	7	8	9
10	10	Phy 112 1	0	10	10	10	10	10	10	10	10
4	8	330 2	0	10	10	18	18	18	18	18	18
5.33	16	331 3	0	10	10	18	26	26	34	34	34
8.25	13	370 4	0	10	10	18	26	26	34	34	39
3.4	17	499 5	0	10	10	18	26	26	34	34	39

CSE499, CSE331, Phy112

b) Phyll2, CSE331, CSE330 \rightarrow he could pick these 3 best per credit value

$$1 + 3 + 2 = 6$$

$10 + 16 + 8 = 34 \rightarrow$ value he would get

∴ 2nd won't get more valued courses (in total)