CS302 2018 Midterm – Answer Sheet Page 1

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Question 1 : Write in the running time of each snippet:

1: 2: 3: 4: 5:

6: 7: 8: 9: 10:

Question 2 : Only show me what changes after you have performed the actions on the vector(s):

This is an example.
Just show me the changes.
Don't show me unchanged values.

Part 0:	Indices:	0	1	2	3	4																			
	Before:	2	4	8	9	5																			
	After:	__	__	__	**10**	**6**	__																		
Part 1:	Indices:	0	1	2	3	4	5	6	7	8	9	10	11	12											
	Before:	5	29	28	47	50	86	60	84	59	83	72													
	After:	__	__	__	__	__	__	__	__	__	__	__	__	__											
Part 2:	Indices:	0	1	2	3	4	5	6	7	8	9	10	11	12											
	Before:	8	25	31	43	35	62	94	83	82	38	90													
	After:	__	__	__	__	__	__	__	__	__	__	__	__	__											
Part 3:	Indices:	0	1	2	3	4	5	6	7	8	9	10	11	12											
	Before:	31	69	90	78	10	87	73																	
	After:	__	__	__	__	__	__	__	__	__	__	__	__	__											
Part 4:	Indices:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15								
Links	Before:	-1	-1	0	1	1	-1	1	-1	11	0	1	-1	11	-1	0	-1								
Links	After:	__	__	__	__	__	__	__	__	__	__	__	__	__	__	__	__								
Sizes	Before:	4	5	1	1	1	1	1	1	1	1	1	3	1	1	1	1								
Sizes	After:	__	__	__	__	__	__	__	__	__	__	__	__	__	__	__	__								
Part 5:	Indices:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Links	Before:	23	11	16	0	13	23	23	23	4	13	13	23	23	23	16	10	-1	23	19	13	4	7	23	-1	-1
Links	After:	__	__	__	__	__	__	__	__	__	__	__	__	__	__	__	__	__	__	__	__	__	__	__	__	__
Ranks	Before:	2	1	1	1	2	1	1	2	1	1	2	2	1	3	1	1	2	1	1	2	1	1	1	4	1
Ranks	After:	__	__	__	__	__	__	__	__	__	__	__	__	__	__	__	__	__	__	__	__	__	__	__	__	__
Part 6:	Indices:	0	1	2	3	4	5	6	7	8	9															
	Before:	80	64	61	66	47	4	51	56	40	3															
	After:	__	__	__	__	__	__	__	__	__	__															

CS302 2018 Midterm – Answer Sheet Page 2

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Question 2, Continued :

Part 7:

Indices:	0	1	2	3	4	5	6	7	8	9
Before:	87	77	54	92	40	46	59	82	12	83
After:	__	__	__	__	__	__	__	__	__	__

Part 8:

Indices:	0	1	2	3	4	5	6	7	8	9
Before:	85	73	60	13	88	62	9	10	65	86
After:	__	__	__	__	__	__	__	__	__	__

Question 3 : Don't bother with #includes or namespaces.

CS302 2018 Midterm – Answer Sheet Page 3

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Question 4 : Don't bother with #includes or namespaces.

CS302 2018 Midterm – Answer Sheet Page 4

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Question 5 : Don't bother with #includes or namespaces.