CS302 2018 Final – Answer Sheet									Name:													
Question 1:									Email:							@ vols.utk.edu						
A :	Value of the pivot:							_														
B :	Recursive call #1: start: size:					:	Recursive call #2: start:									size:						
C :	Recursive call #1:	sive call #1: start: size:					:	Recursive call #2: start:									size:					
D:	Recursive call #1: start: size:					:	Recursive call #2: start:									size:						
E:	Circle the answer:	а	b	С	d	е	f	g	h	i	j	k	1	m	n	0	р	q	r	S	t	
F:	Circle the answer:	а	b	С	d	е	f	g	h	i	j	k	1	m	n	0	р	q	r	S	t	
Ouestion 2: Write the three important details here.																						

Question 3: Circle the correct answer. Only circle one answer.

$\mathbf{A}: \quad \bigcirc (1)$ $O(\alpha(V))$ O(log(V))O(V)O(E) O(V+E)O(V log(V))O(E log(V) $O(V^2)$ O(v!) **B**: 0(1) $O(\alpha(V))$ O(log(V))O(V)O(E) O(V+E)O(V log(V))O(E log(V) $O(V^2)$ O(v!)

C: 0(1) $O(V^2)$ $O(\alpha(V))$ O(log(V))O(V)O(E) O(V+E)O(V log(V))O(E log(V) O(v!)

D: $O(V^2)$ 0(1) O(E log(V) $O(\alpha(V))$ O(log(V))0 (V) O(E) O(V+E)O(V log(V))O(v!)

 \mathbf{E} : 0(1) $O(\alpha(V))$ O(log(V))O(V)O(E) O(V+E)O(V log(V))O(E log(V) $O(V^2)$ O(v!)

 \mathbf{F} : 0(1) O(V log(V))O(E log(V) $O(V^2)$ O(v!) $O(\alpha(V))$ O(log(V))0 (V) O(E) O(V+E)

 \mathbf{G} : 0(1) $O(\alpha(V))$ O(log(V))O(V)O(E) O(V+E)O(V log(V))O(E log(V) $O(V^2)$ O(v!)

H: 0(1) $O(V^2)$ $O(\alpha(V))$ O(log(V))O(V)O(V log(V))O(E log(V) O(E) O(V+E)O(v!)

I: 0(1) $O(\alpha(V))$ O(log(V))O(V)O(E) O(V+E)O(V log(V))O(E log(V) $O(V^2)$ O(v!)

J: 0(1) $O(\alpha(V))$ 0 (V) O(E) O(V+E) $O(V^2)$ O(log(V))O(V log(V))O(E log(V) O(v!)

<u>C</u> !	S302 2018 Final – Answer Sheet,										
Qı	uestion 4:	ail:	@ vols.utk.edu								
A:	Order that the nodes are printed:	-									
B :	Order that the nodes are printed:	-									
C:	: Order that the nodes are printed:										
D:	: Length of shortest path from 0 to 5:										
E :	: Order of node removal from the multimap:										
F:	Edges in the minimum spanning tree:										
G.	Path with maximum flow from 0 to 5:	_									
H :	Use the adjacency matrix to the right:		0		1	2	3	4	5		
	If a value in the adjacency matrix	0	_ [30						
	changes, put the changed value in the	1			<u> </u>	22	5				
	box. If a value is unchanged, leave.	2	12] - [13	8			
	the box empty.	3	-] - [] - [45		
		4	_ [] - [22				
		5	_ [17			
I:	Minimum cut with respect to 0 to 5.:	_									
J:	Maximum flow from 0 to 5:	_									
Question 5: Put your answer here. If there's not enough room, please use the next page.											

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Question 5: Put the rest of your answer here.							