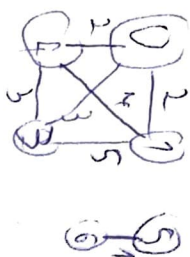


LAB 2

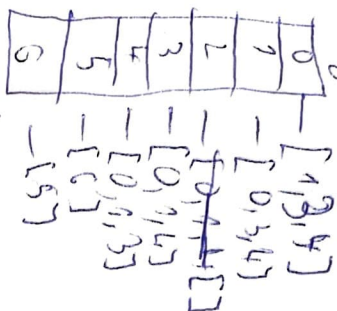
Find the connected components of an undirected graph using DFS

(2)



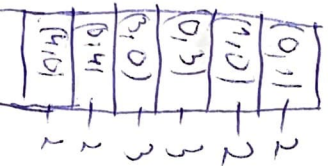
Neighbourhoods

bag - nodes

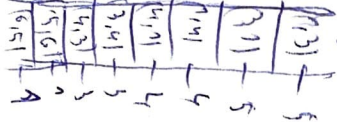


Order of discovery

bag - nodes



bag - nodes



cell id	cell no.	neighbors	dfs stack	component	visited
cell id 1	—	—	[0]	—	1
0	1	3			
	4	3	[1, 3, 4]	①	{0: True}
4	0	3	[1, 3, 4, 3]	②-④	{0: True, 1: True, 3: True}
3	0	4	[1, 3, 4, 1]	①-④	{0: True, 1: True, 3: True, 4: True}
1	0	4	[1, 3, 4, 1]	①-④	{0: True, 1: True, 3: True, 4: True}
	3	4			
	4	3			
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cell 2/1	-	-	[1]	-	$\{1\}$
	2		[]	(2)	$\{2, 1\}$
cell 2/1	-	-	[5]	-	$\{1\}$
	5	6	[6]	(5)	$\{5, 1\}$
	6	5	[]	(5) ¹ (6)	$\{5, 1, 6, 1\}$

