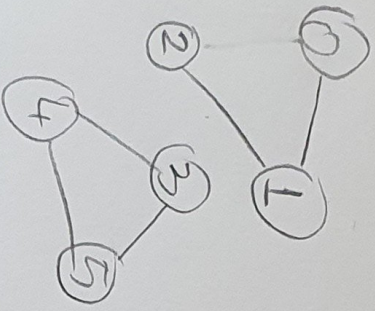


LFRB 2

FIND THE CONNECTED COMPONENTS OF AN UNDIRECTED GRAPH USING BFS



(6)

dict:

key value

0	-	[1]
1	-	[2, 0]
2	-	[1]
3	-	[4, 5]
4	-	[3, 5]
5	-	[3, 4]
6	-	[]

IT: Node	visited	COMPONENT	COMPONENTS	NEIGHBORS
1: 0	{0}	[0]	[]	0: [1]
1, 1: 1	{0, 1}	[0, 1]	[]	1: [1, 2]
1, 2: 2	{0, 1, 2}	[0, 1, 2]	[]	2: [1, 3] → Blocked
2: 3	{0, 1, 2, 3}	[3]	[[0, 1, 2]]	3: [4, 5]
2, 1: 4	{0, 1, 2, 3, 4}	[3, 4]	[[0, 1, 2]]	4: [3, 5]
2, 2: 5	{0, 1, 2, 3, 4, 5}	[3, 4, 5]	[[0, 1, 2]]	5: [3, 4] → Blocked
3: 6	{0, 1, 2, 3, 4, 5, 6}	[6]	[[0, 1, 2], [3, 4, 5]]	6: [] → Blocked
			[[0, 1, 2], [3, 4, 5], [6]]	