

Bound dictionary:

0: 1, 2, 3

1: 0, 2, 4

2: 0, 1, 4, 5

3: 0, 5

4: 1, 2

5: 2, 3

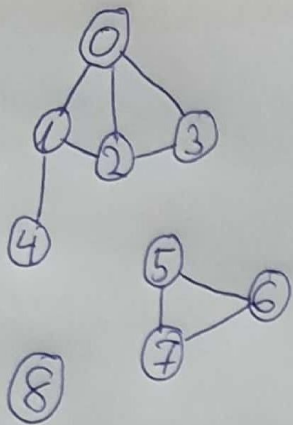
depth-first-traversal(0):

current vertex	g	stack	connected	visited
		[0]		{ }
0		[]	[0]	
	1	[1]		
	2	[1, 2]		
	3	[1, 2, 3]		{0}
3		[1, 2]	[0, 3]	
	0			
	5	[1, 2, 5]		{0, 3}
5		[1, 2]	[0, 3, 5]	
	2	[1, 2, 2]		
	3			
2		[1, 2]	[0, 3, 5, 2]	{0, 3, 5}
	0			
	1	[1, 2, 1]		
	4	[1, 2, 1, 4]		
	5			{0, 3, 5, 2}
4		[1, 2, 1]	[0, 3, 5, 2, 4]	
	1	[1, 2, 1, 1]		
	2			{0, 3, 5, 2, 4}

1	0 2 4	$[1, 2, 1]$	$[0, 3, 5, 2, 4, 1]$
1		$[1, 2]$	
2		$[1]$	
1		$[0]$	

$\{0, 3, 5, 2, 4, 1\}$

The whole graph is a connected component



Bound dictionary:

0: 1, 2, 3

1: 0, 2, 4

2: 0, 1, 3

3: 0, 2

4: 1

5: 6, 7

6: 5, 7

7: 5, 6

8: -

depth-first-traversal(0)!

current_vortex	g	stack	connected	visited
0		[0]	[0]	{0} { }
	1	[0 , 1]		
	2	[0 , 1, 2]		
	3	[0 , 1, 2, 3]		{0}
3		[1, 2]	[0, 3]	
	0			
	2	[1, 2, 2]		{0, 3}
2		[1, 2]	[0, 3, 2]	
	0			
	1	[1, 2, 1]		
	3			{0, 3, 2}
1		[1, 2]	[0, 3, 2, 1]	
	0			
	2			
	4	[1, 2, 4]		{0, 3, 2, 1}
4		[1, 2]	[0, 3, 2, 1, 4]	
	1			{0, 3, 2, 1, 4}
		[1]		
2				
1		[]		

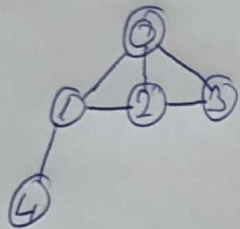
depth-first-traversal(5);

current-vertex	g	stack	connected	visited
		[5]		
5		[]	[5]	{0, 3, 2, 1, 4, 5 }
	6	[6]		
	7	[6, 7]		
7		[6]	[5, 7]	{0, 3, 2, 1, 4, 5}
	5			
	6	[6, 6]		
6		[6]	[5, 7, 6]	{0, 3, 2, 1, 4, 5, 7}
	5			
	7			
6		[]		{0, 3, 2, 1, 4, 5, 7}
				{0, 3, 2, 1, 4, 5, 7, 6}

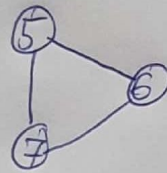
depth-first-traversal(8)!

current-vertex	z	stack	connected	visited
	7	[8]		{0, 3, 2, 1, 4, 5, 7 }
8		[]	[8]	{0, 3, 2, 1, 4, 5 , 7, 6, 8}

component 1:



component 2:



component 3:

