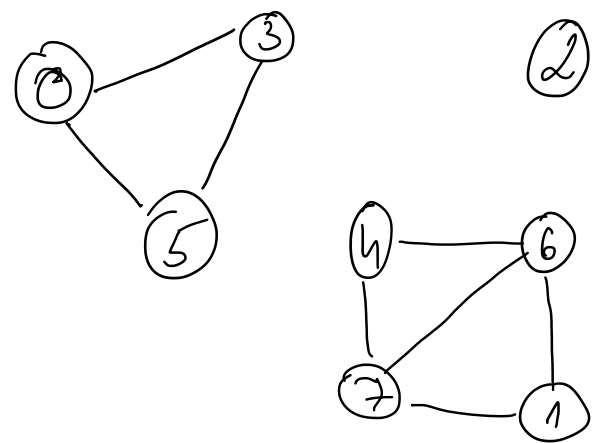


Lab 2 Find the connected components of an undirected graph.

Wednesday, 24 March 2021 20:40



Neut dictionary.

keys	value
0	- [3, 5]
1	- [6, 7]
2	- []
3	- [0, 5]
4	- [6, 7]
5	- [0, 3]
6	- [1, 4, 7]
7	- [1, 4, 6]

The given graph has 3 connected components:

- ① [0, 3, 5]
- ② [1, 4, 6, 7]
- ③ [2].

	x	y	queue	acc	visited.
					{}
call accessible(0)	0	3	← 0	[0]	[0]
	③	5	← 3	[0, ③]	[0, ③]
	⑤		← 3 5	[0, 3, ⑤]	[0, 3, ⑤]
			← 3 5	①	
			← 3		
call accessible(1)	1	6	← 1	[1]	[0, ①, 3, 5]
	⑥	7	← 6	[1, ⑥]	[0, 1, 3, 5, ⑥]
	⑦	4	← 6 7	[1, 6, ⑦]	[0, 1, 3, 5, 6, ⑦]
	④		← 6 7	[1, ④, 6, 7]	[0, 1, 3, ④, 5, 6, 7]
			← 7 4	②	
			← 1		
call accessible(2)	2	-	← 2	[2]	[0, 1, ②, 3, 4, 5, 6, 7]
				③	