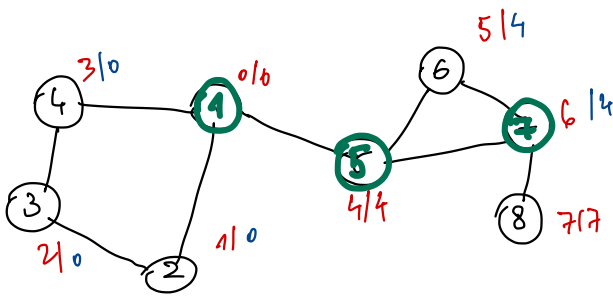


Tarjan CV



1: 2 4 5
2: 1 3
3: 2 4
4: 1 3
5: 1 6 7
6: 5 7
7: 5 6 8
8: 7

idx	1	2	3	4	5	6	7	8
	0	1	2	3	4	5	6	7
lowlink	0	4	2	3	4	5	6	7
parent	-	1	2	3	4	5	6	7
visited	✓	✓	✓	✓	✓	✓	✓	✓

indices
0
1
2
3
4
5
6
7
8

$\text{tarjan}(1)$
 $x=1 \rightarrow y=2$
 $c=1$
 $\text{tarjan}(2)$
 $x=2 \Rightarrow y=1$
 $c=1$
 $\text{tarjan}(3)$
 $x=3 \rightarrow y=2$
 $c=1$
 $\text{tarjan}(4)$
 $x=4 \rightarrow y=1$
 $c=1$

$\text{tarjan}(5)$
 $x=5 \rightarrow y=1$
 $c=1$
 $\text{tarjan}(6)$
 $x=6 \rightarrow y=5$
 $c=1$

4, 4 ✓

4, 5 ✗

$\text{tarjan}(7)$

$c = 2$

$x = 7$

$y = 5$

$y = 6$

x

$y = 8$

$\text{lowlink}[7] = \min(6, 4) = 4$

$7 \geq 6$

$\text{tarjan}(8)$

$x = 8$

$y = 7$

x