

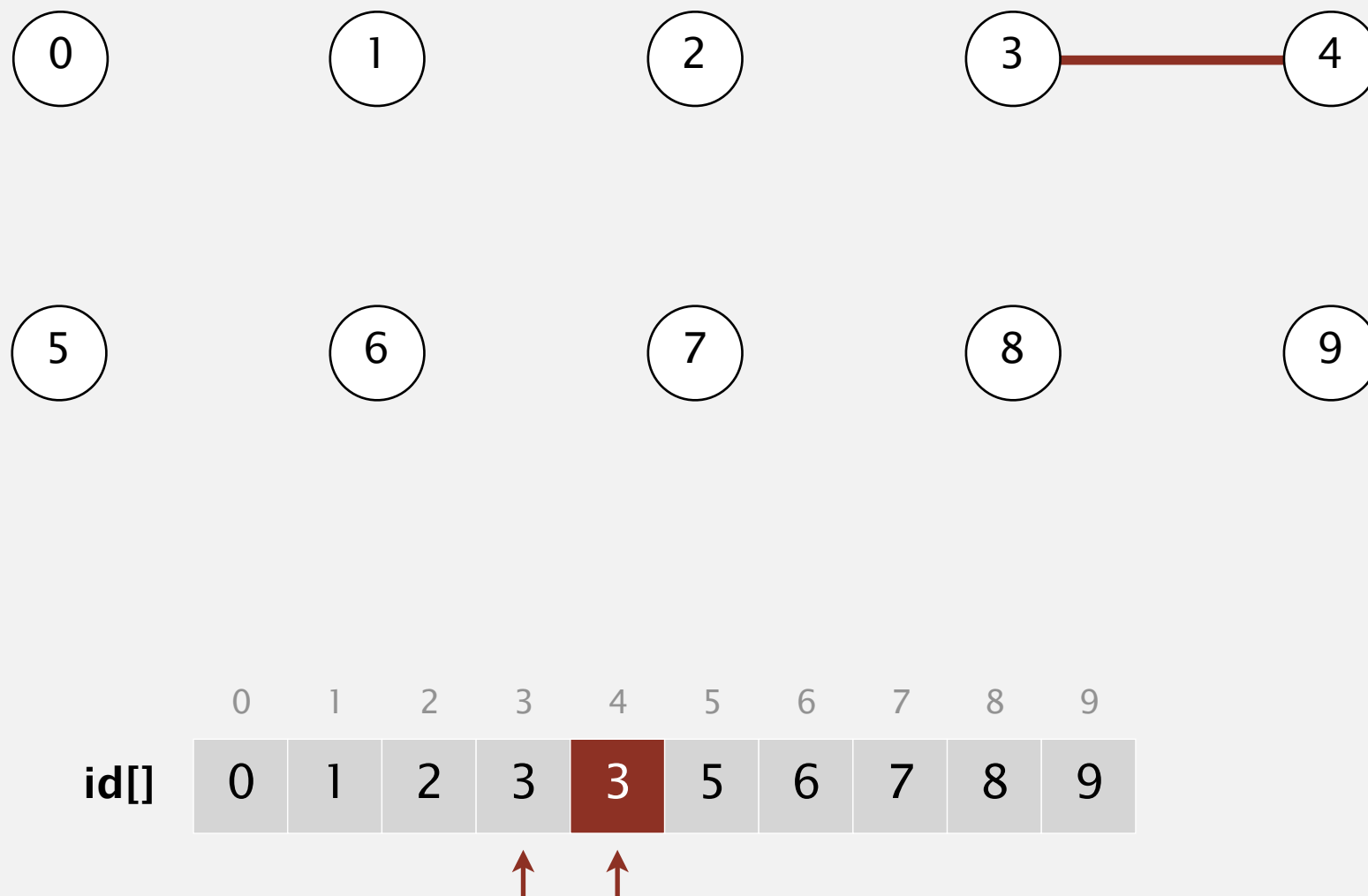


<http://algs4.cs.princeton.edu>

1.5 QUICK-FIND DEMO

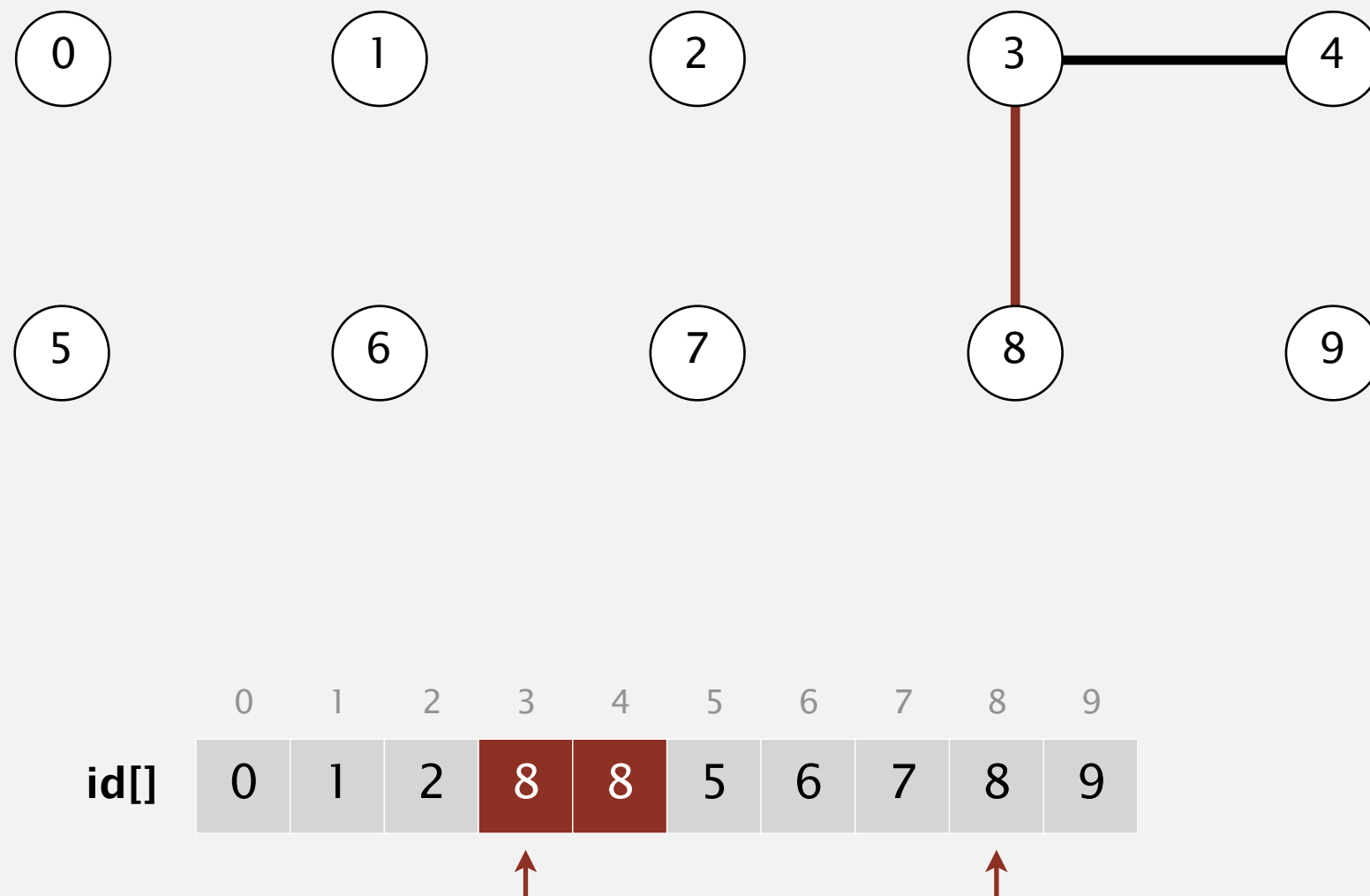
Quick-find demo

union(4, 3)



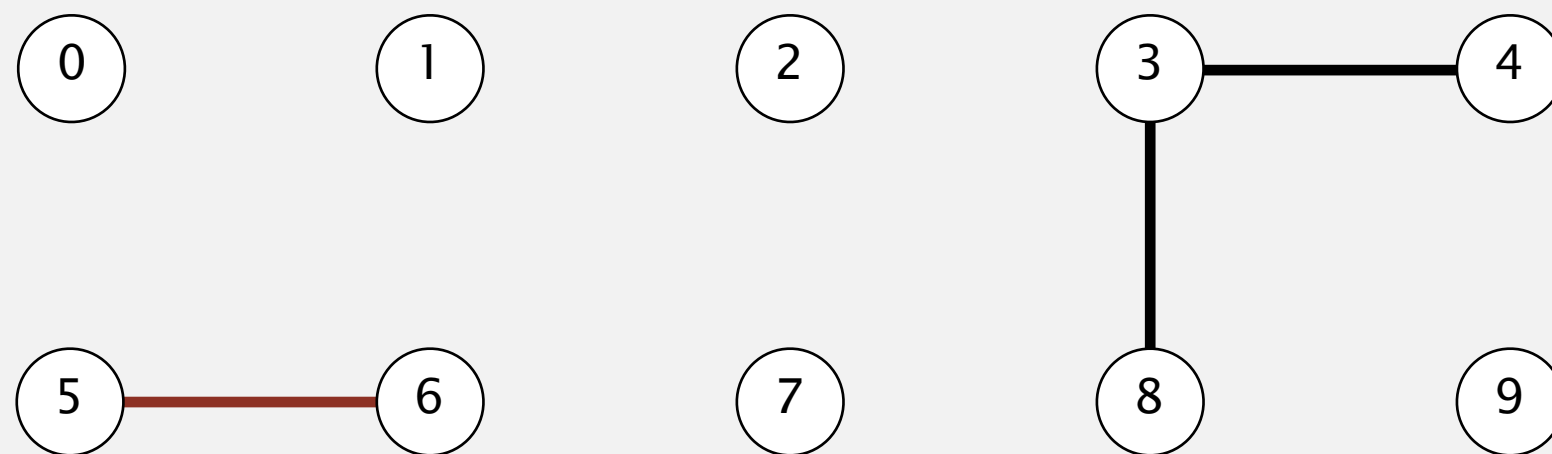
Quick-find demo

union(3, 8)



Quick-find demo

union(6, 5)

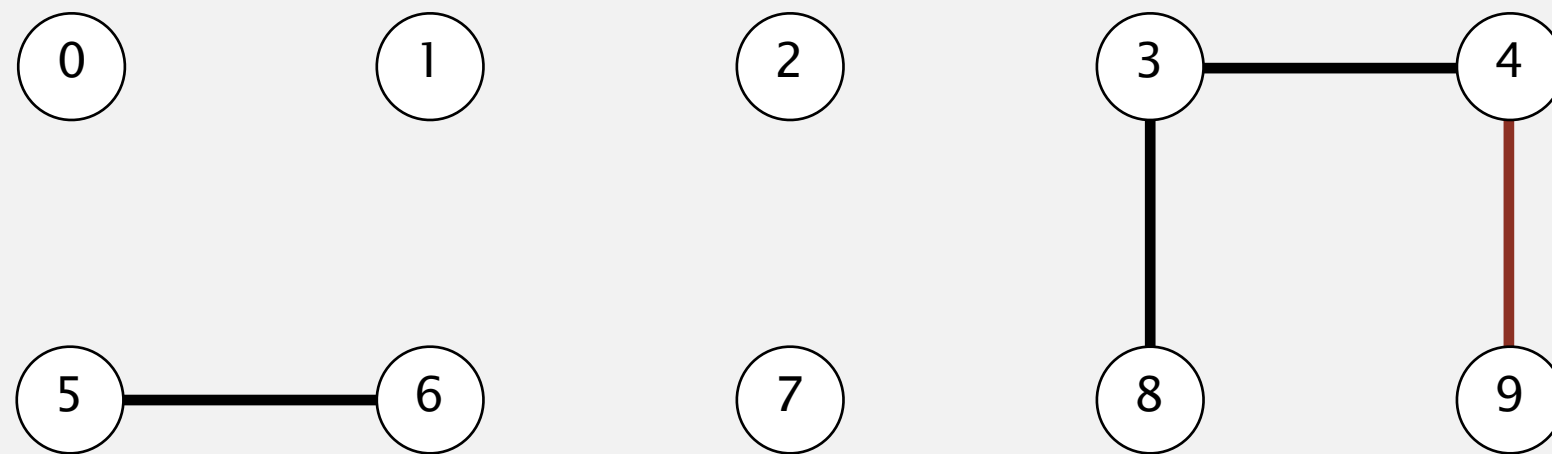


	0	1	2	3	4	5	6	7	8	9
id[]	0	1	2	8	8	5	5	7	8	9

↑ ↑

Quick-find demo

union(9, 4)

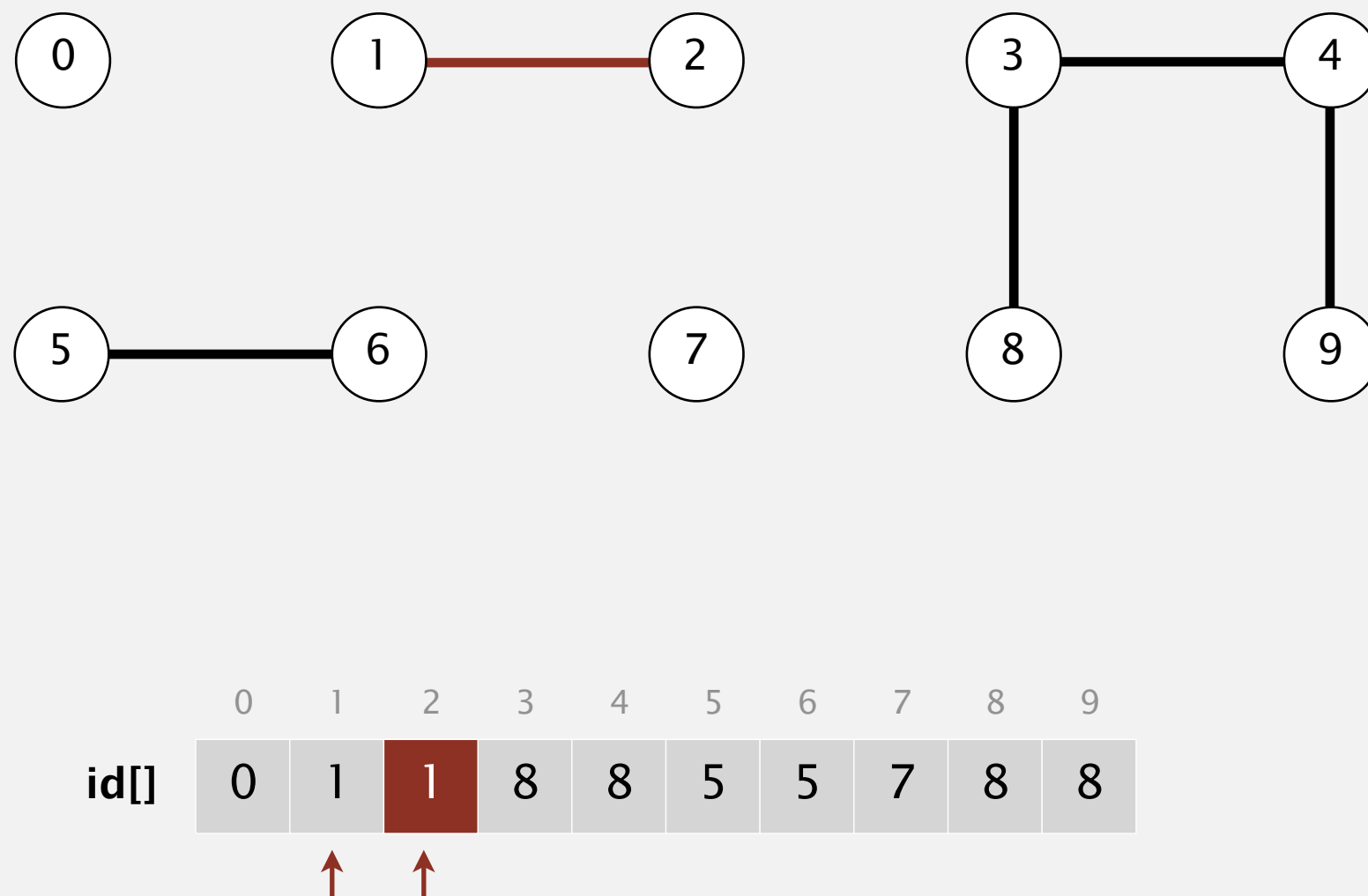


	0	1	2	3	4	5	6	7	8	9
id[]	0	1	2	8	8	5	5	7	8	8

↑ ↑

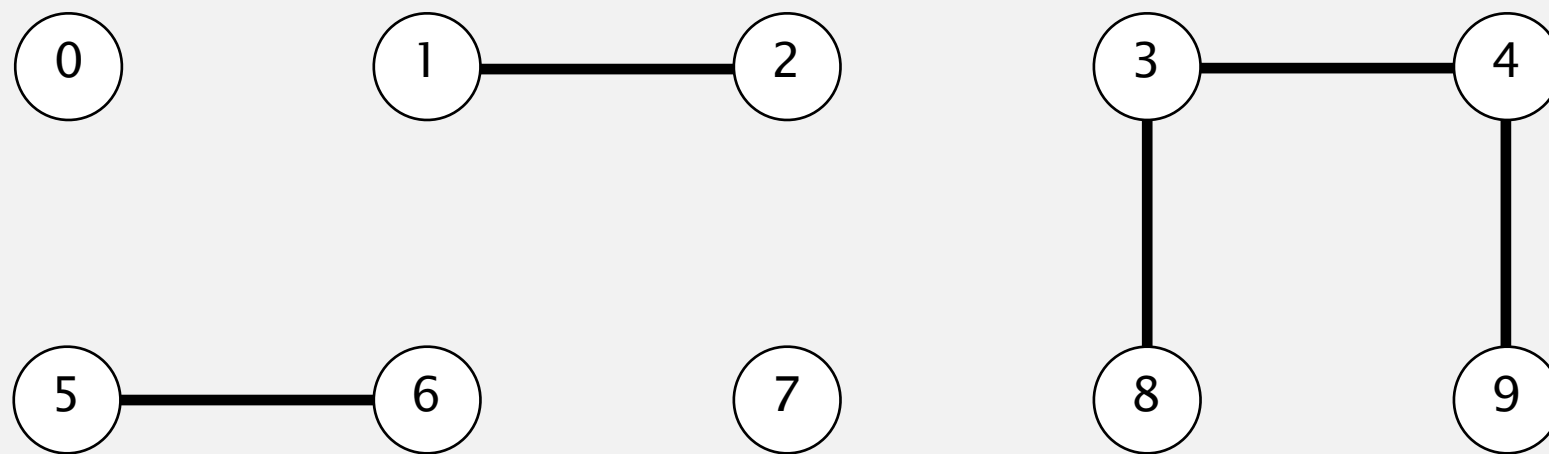
Quick-find demo

union(2, 1)



Quick-find demo

connected(8, 9)

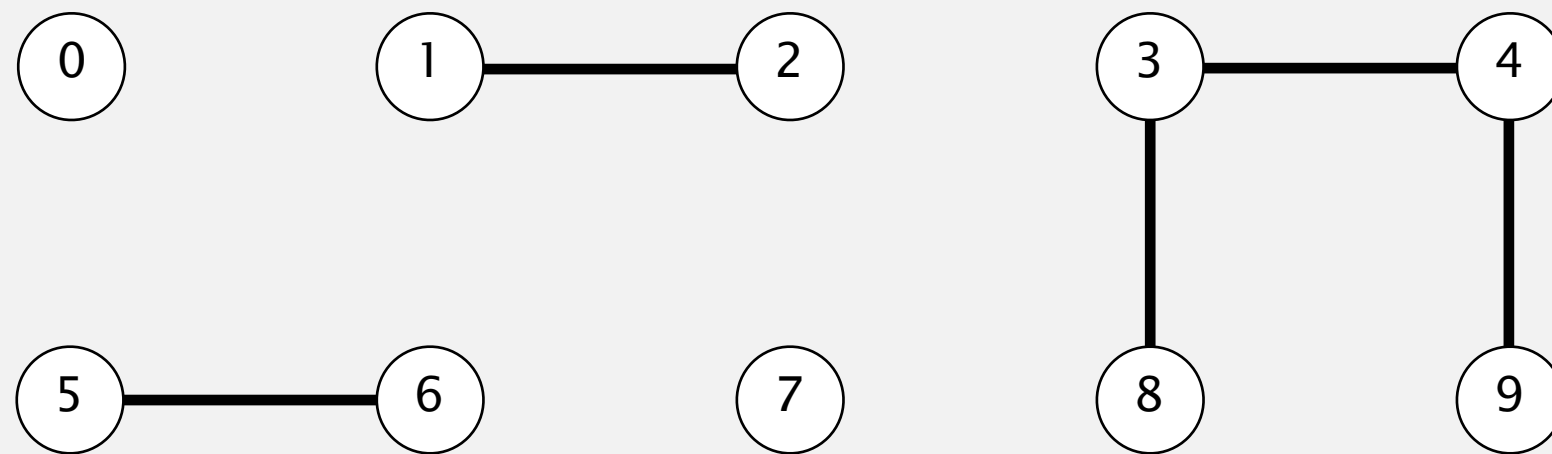


	0	1	2	3	4	5	6	7	8	9
id[]	0	1	1	8	8	5	5	7	8	8

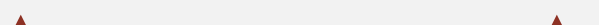
↑ ↑
already connected

Quick-find demo

connected(5, 0)



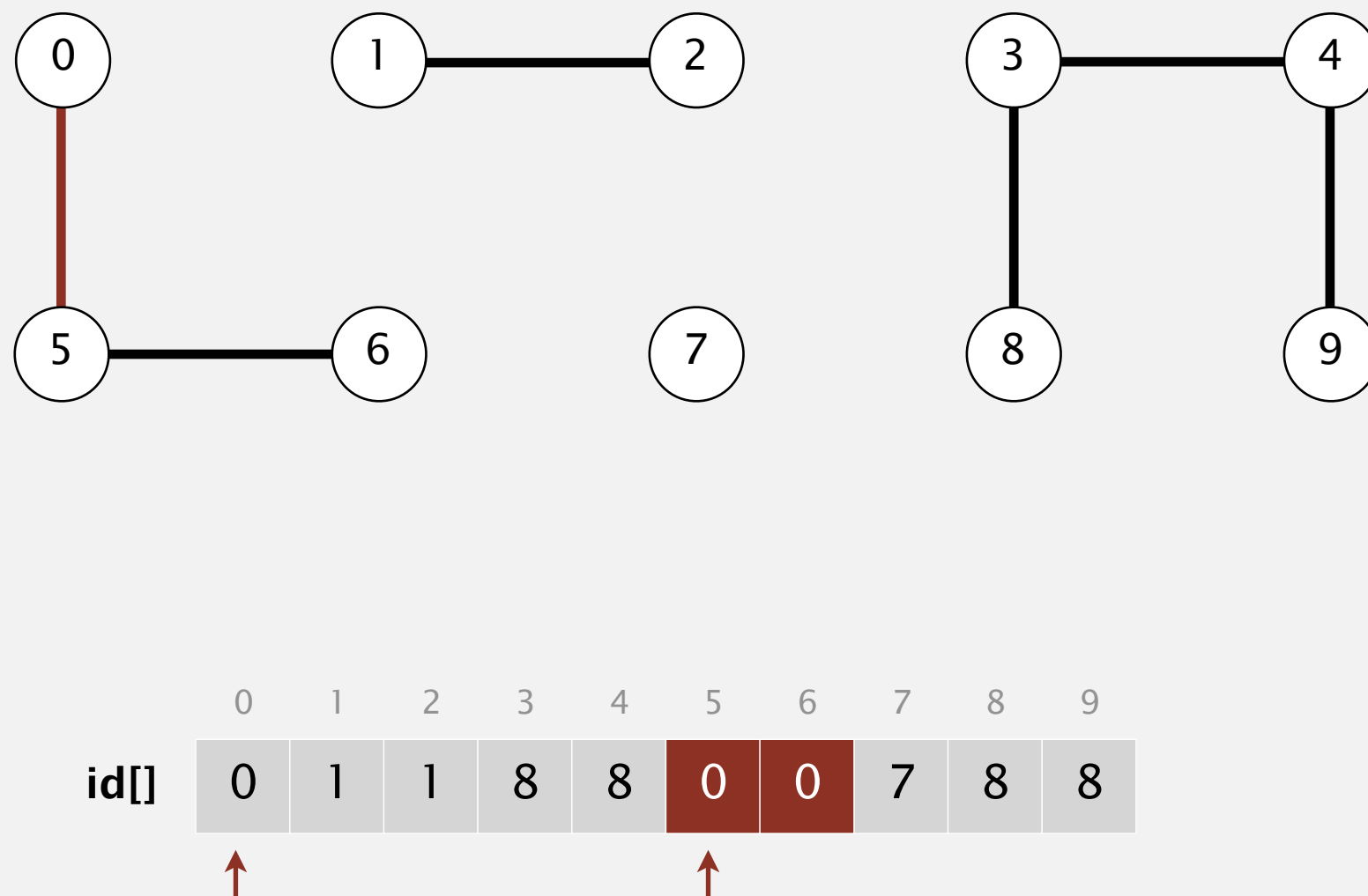
	0	1	2	3	4	5	6	7	8	9
id[]	0	1	1	8	8	5	5	7	8	8



not connected

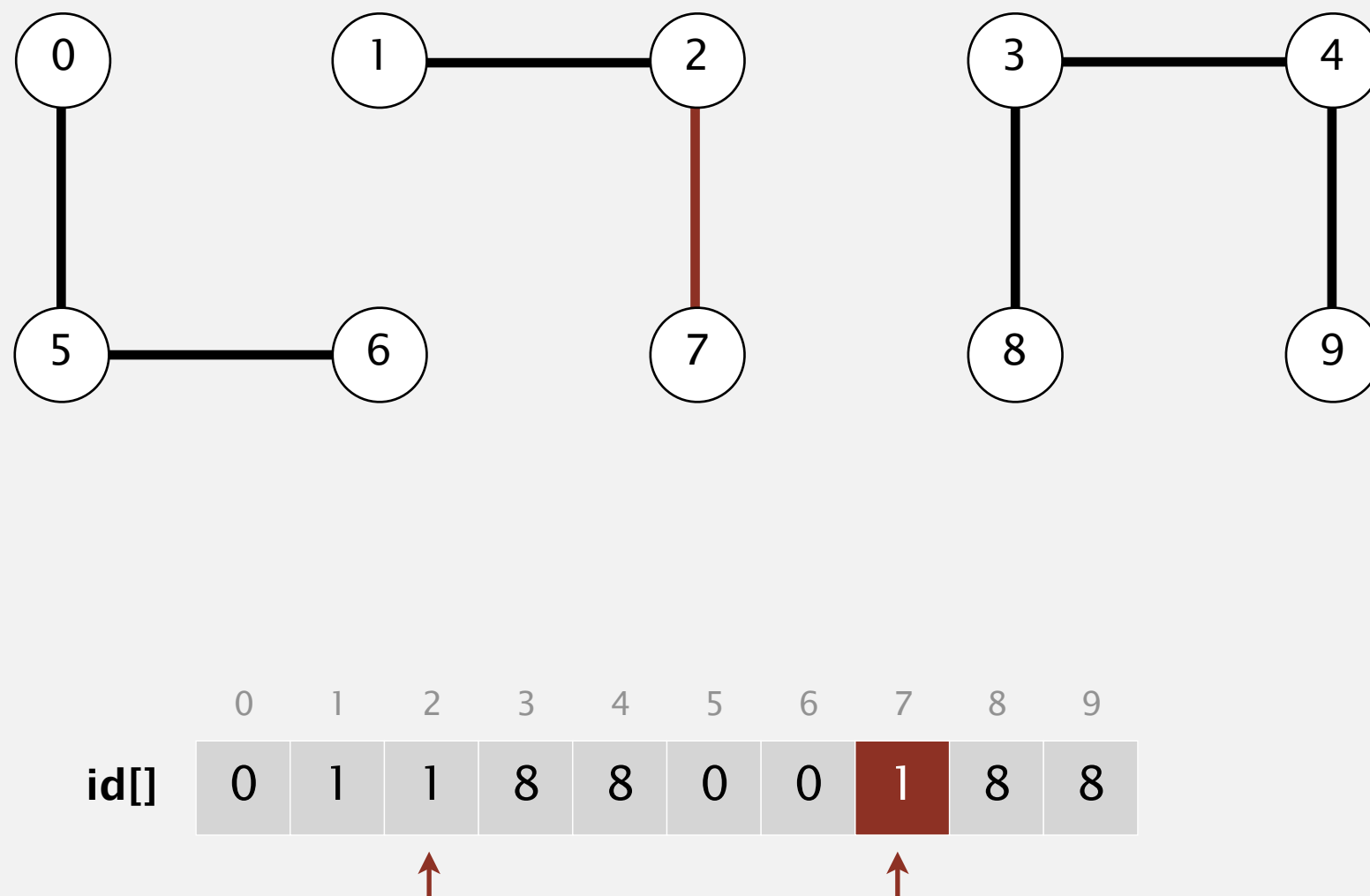
Quick-find demo

union(5, 0)



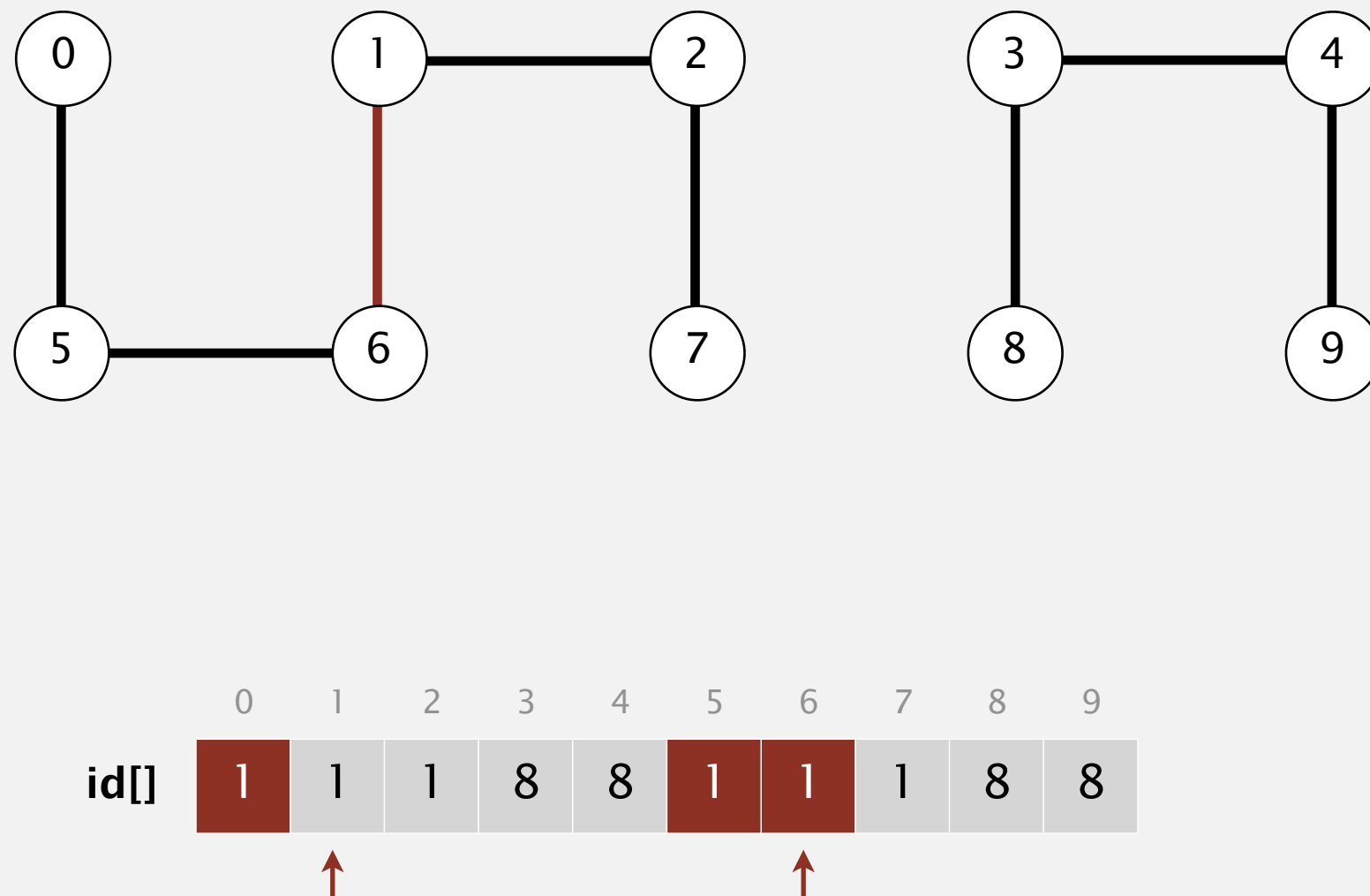
Quick-find demo

union(7, 2)

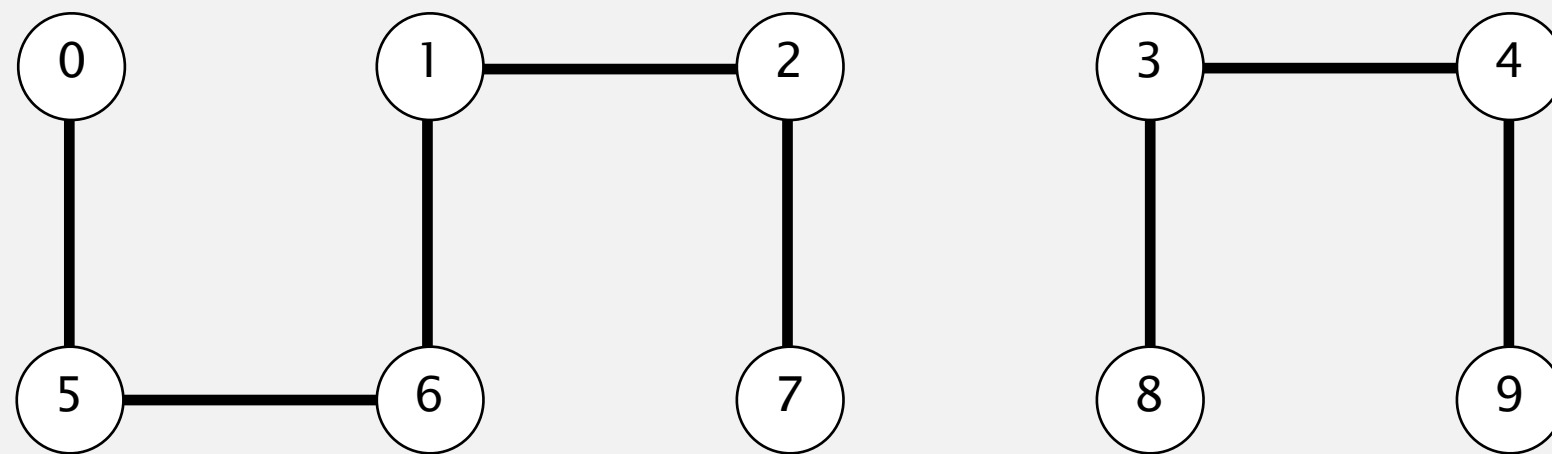


Quick-find demo

union(6, 1)



Quick-find demo



	0	1	2	3	4	5	6	7	8	9
id[]	1	1	1	8	8	1	1	1	8	8