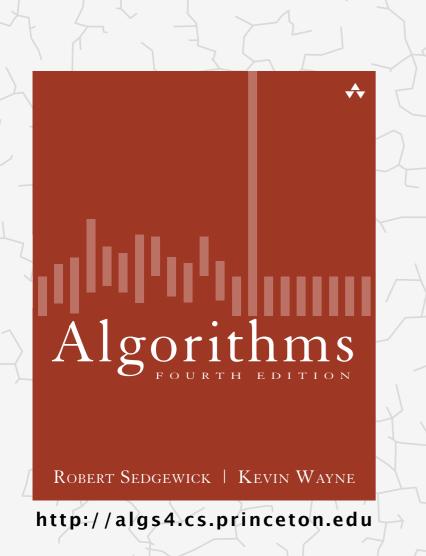
Algorithms



1.5 PATH COMPRESSION DEMO

click to begin demo



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

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

union(4, 3)

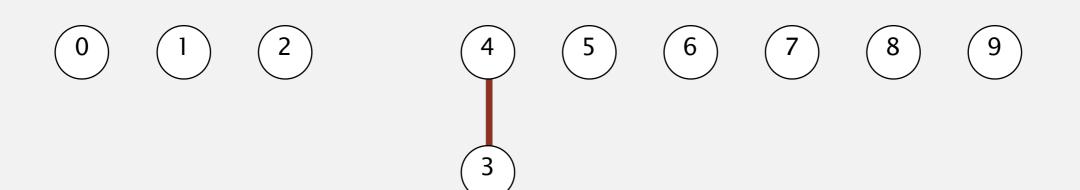


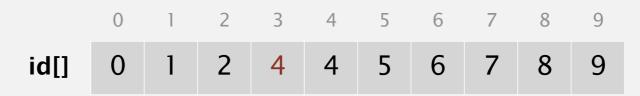


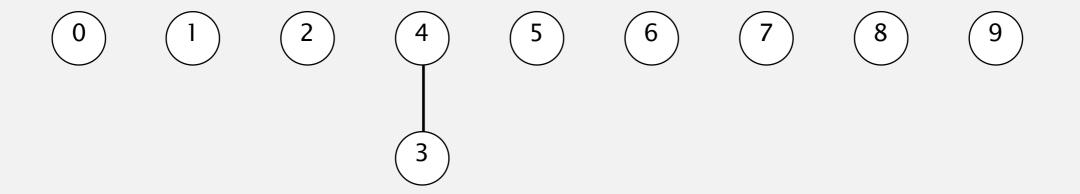
id[] 0 1 2 3 4 5 6 7 8 9

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

union(4, 3)



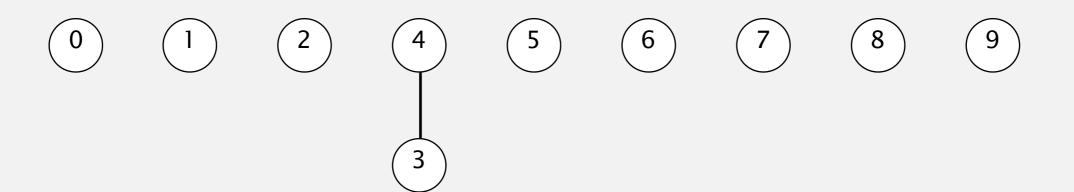


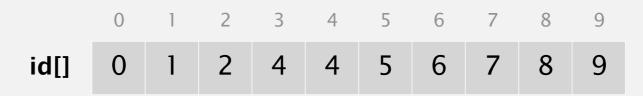


id[] 0 1 2 3 4 5 6 7 8 9

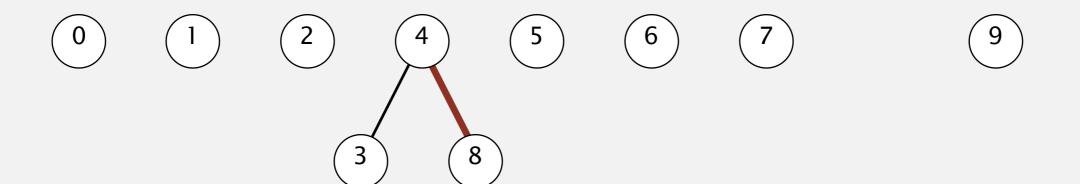
id[] 0 1 2 4 4 5 6 7 8 9

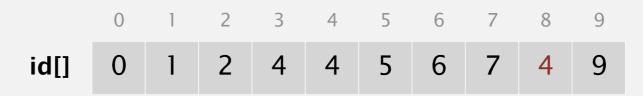
union(3, 8)



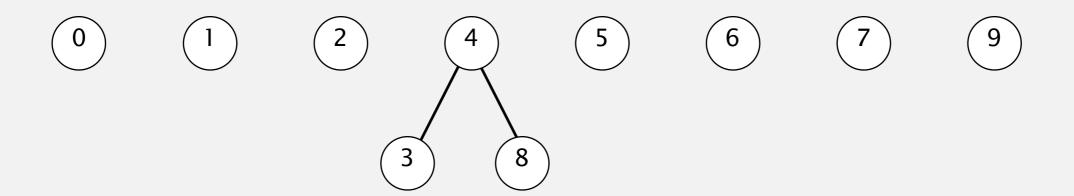


union(3, 8)

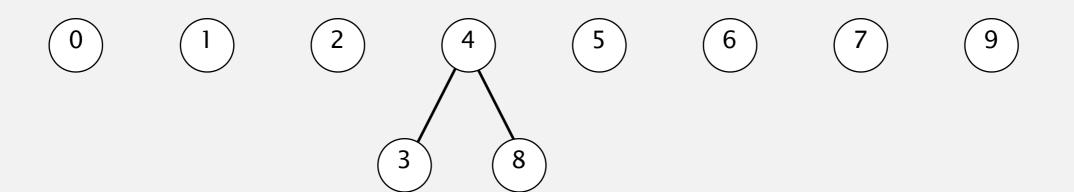


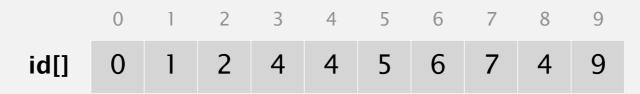


id[]

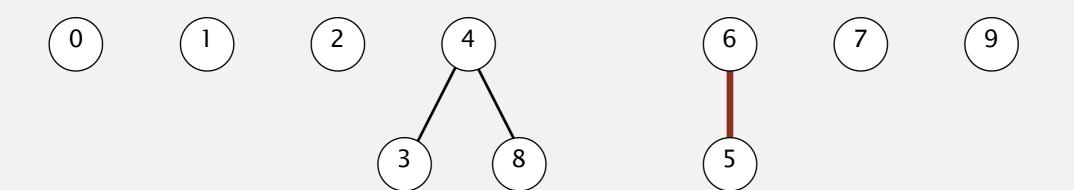


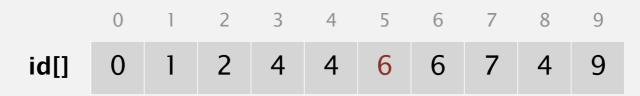
union(6, 5)



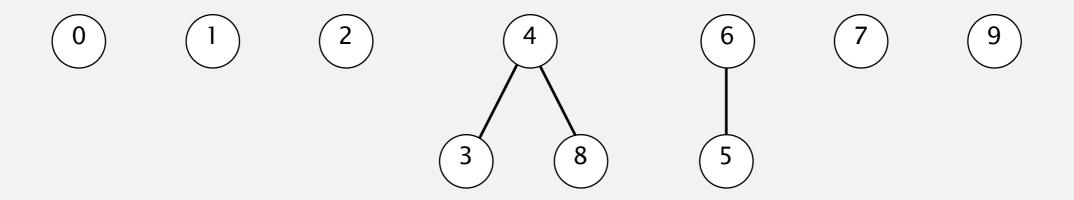


union(6, 5)

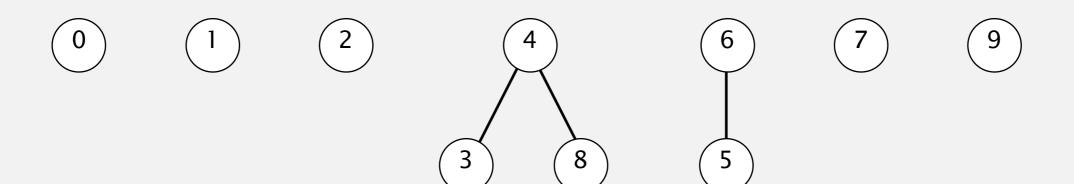


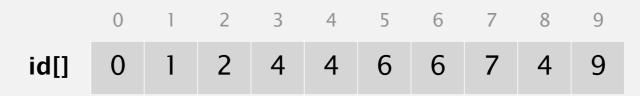


id[]

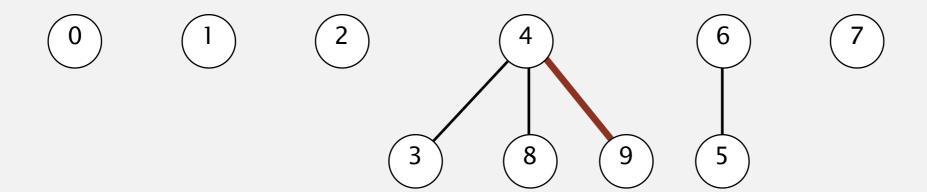


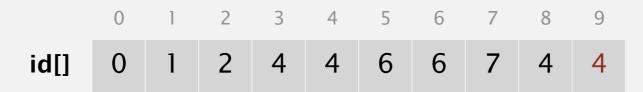
union(9, 4)

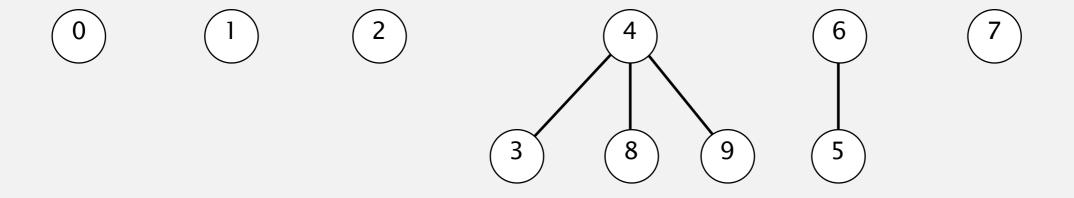


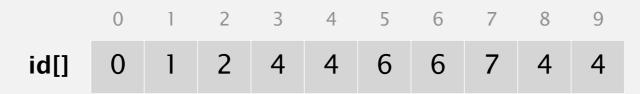


union(9, 4)

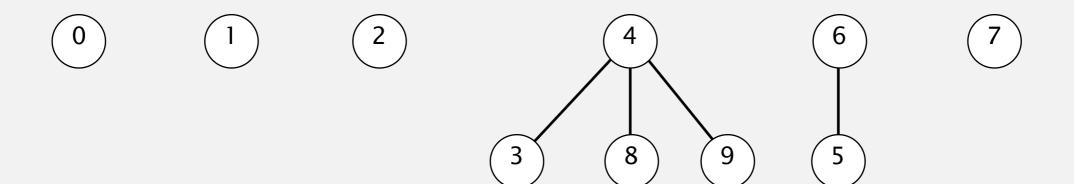


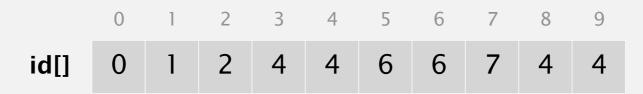




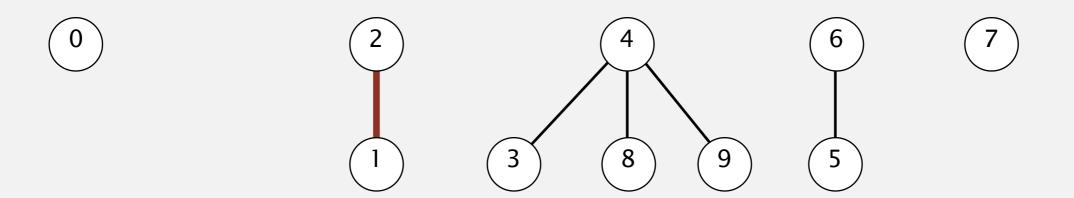


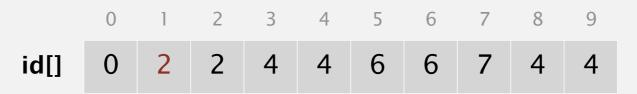
union(2, 1)

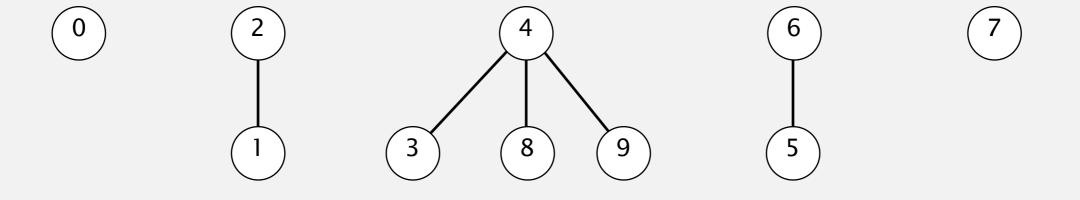


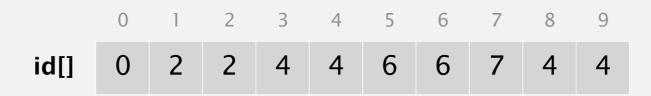


union(2, 1)

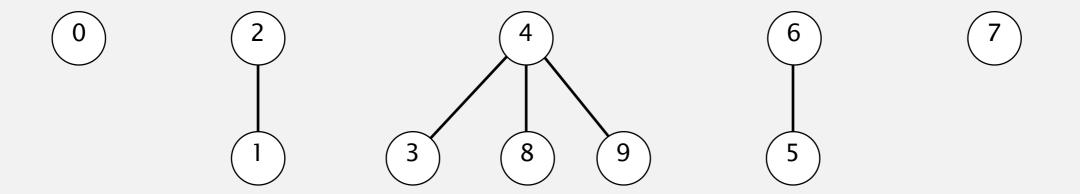


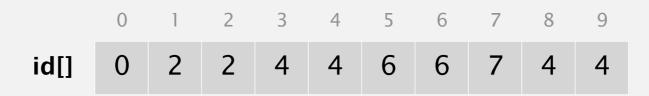




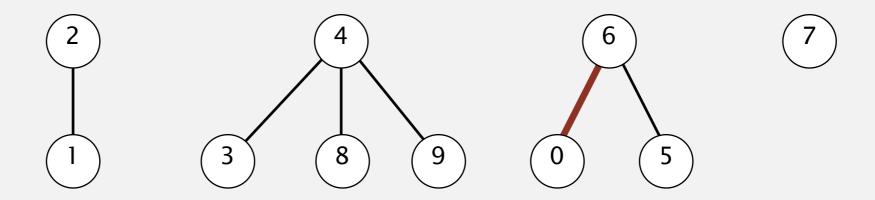


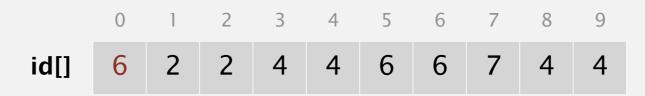
union(5, 0)

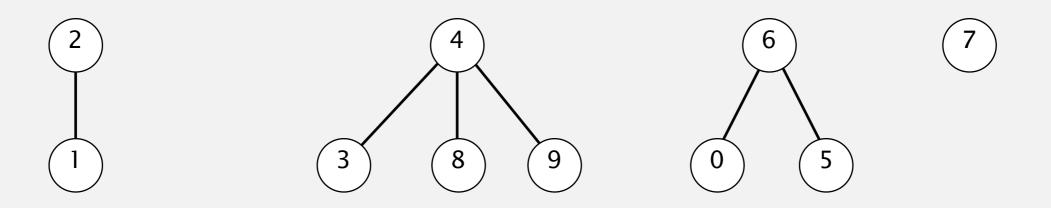




union(5, 0)

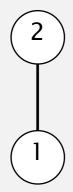


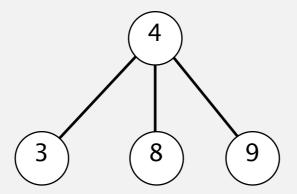


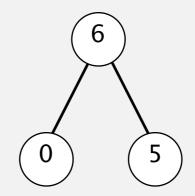


id[] 6 2 2 4 4 6 6 7 4 4

union(7, 2)



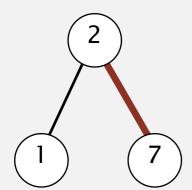


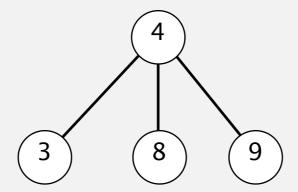


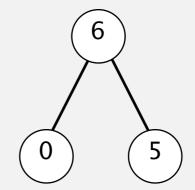


id[] 6 2 2 4 4 6 6 7 4 4

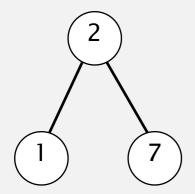
union(7, 2)

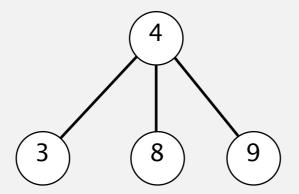


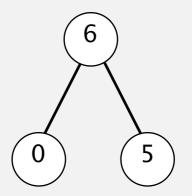




					4					
id[]	6	2	2	4	4	6	6	2	4	4

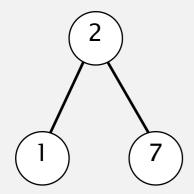


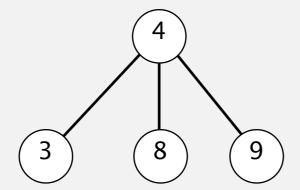


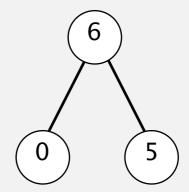


						5				
id[]	6	2	2	4	4	6	6	2	4	4

union(6, 1)

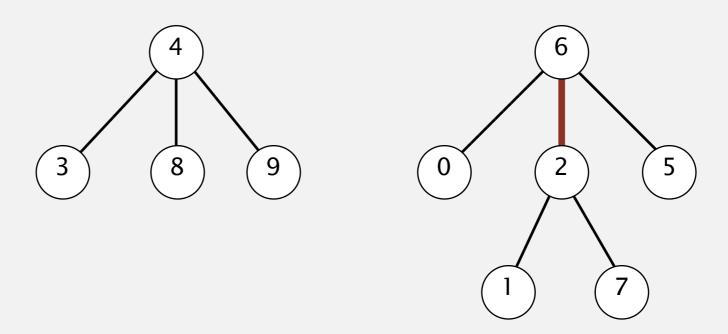


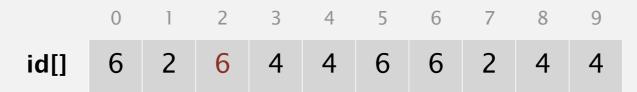


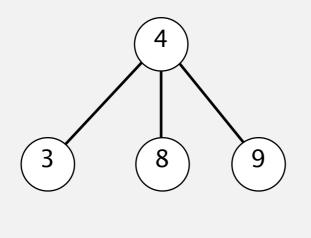


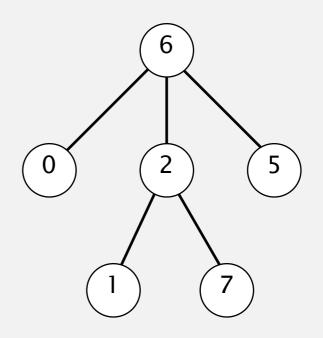
id[] 6 2 2 4 4 6 6 7 8 9

union(6, 1)



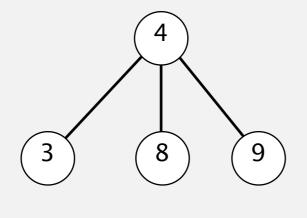


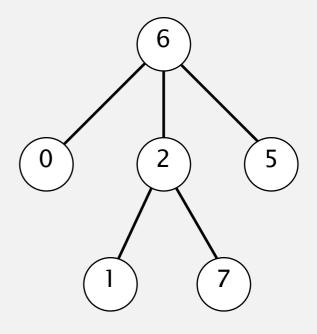


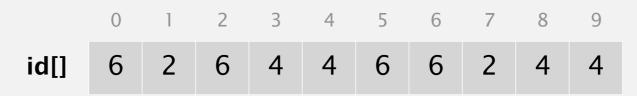


						5				
id[]	6	2	6	4	4	6	6	2	4	4

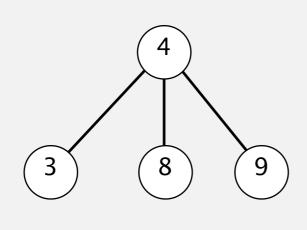
union(7, 3)



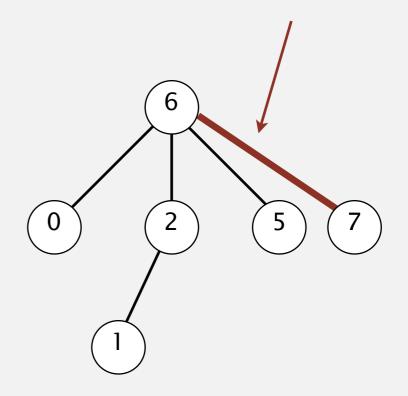


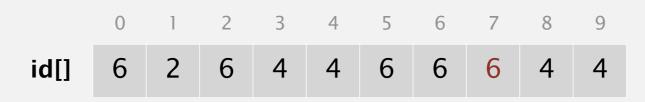


union(7, 3)

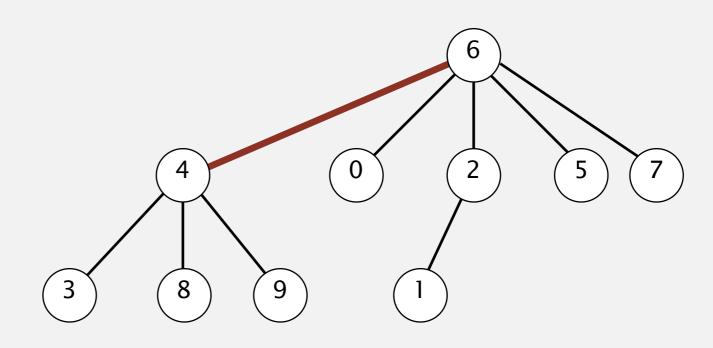


path compression: make 7 point to 6



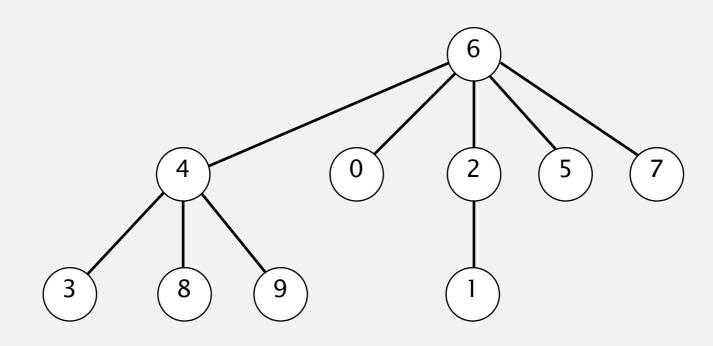


union(7, 3)



id[] 6 2 6 4 6 6 6 4 4

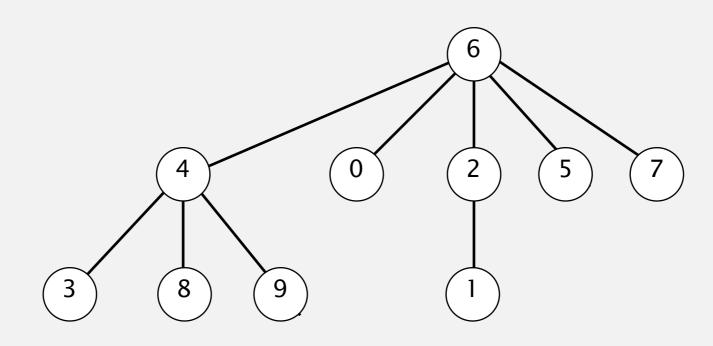
id[]



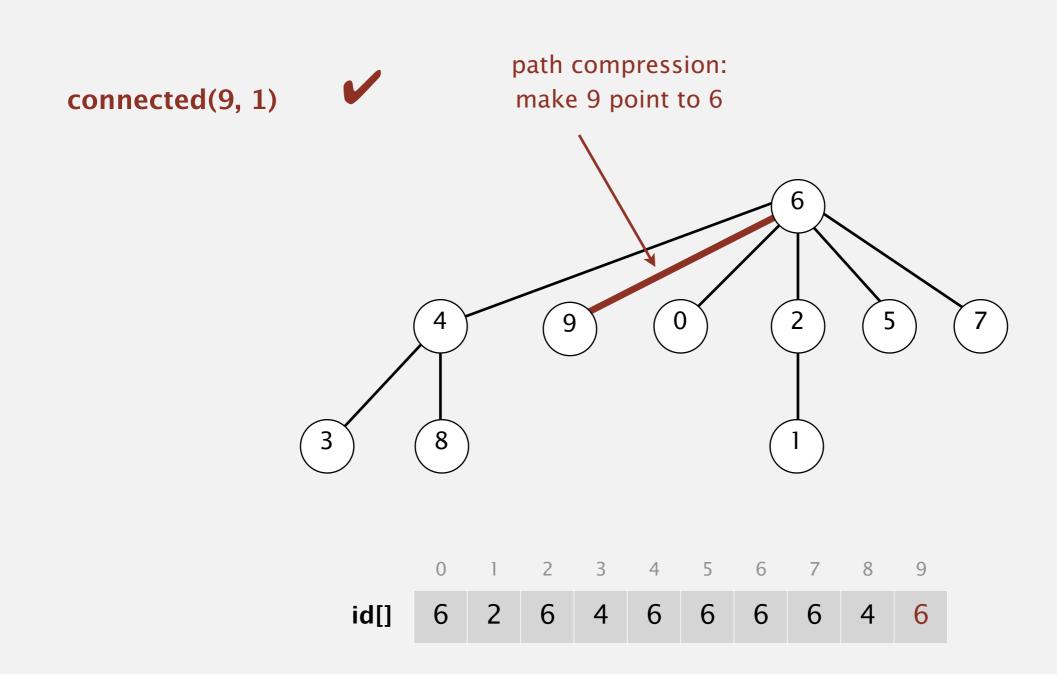
6 4 6

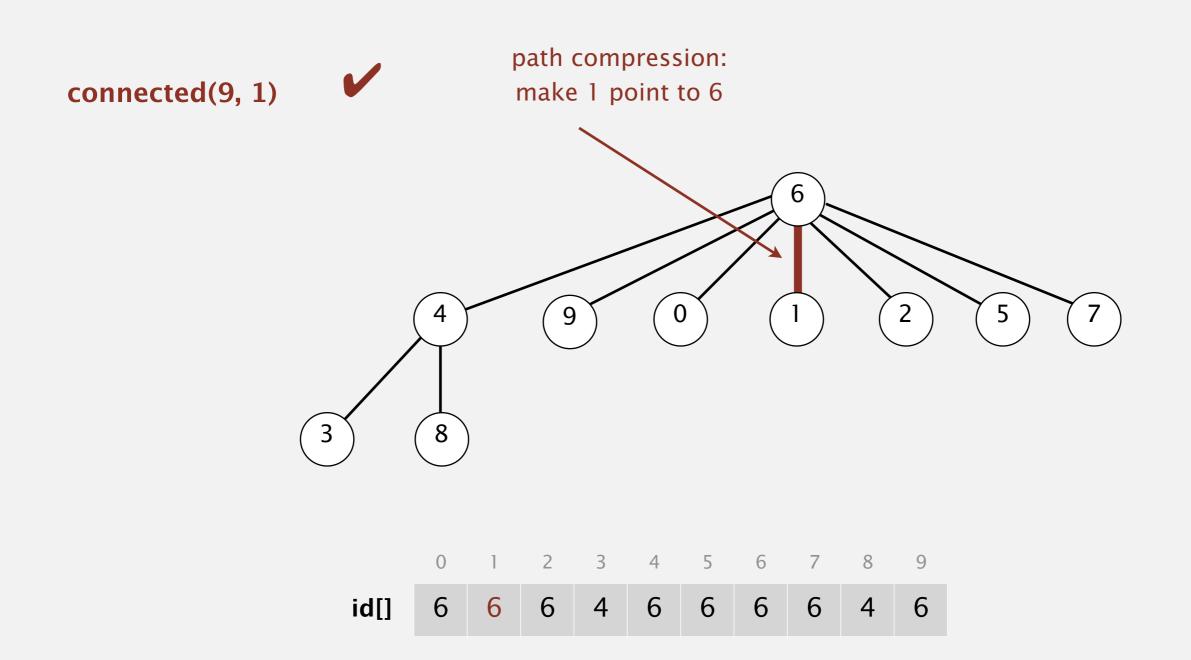
connected(9, 1)

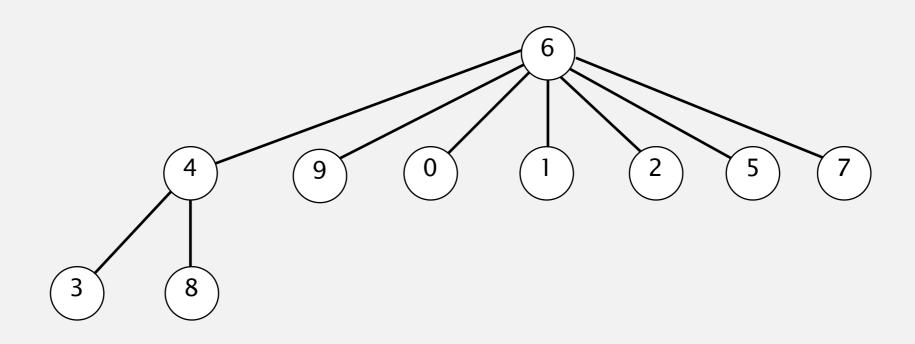




id[] 6 2 6 4 6 6 6 4 4







id[] 6 6 6 4 6 6 6 4 6