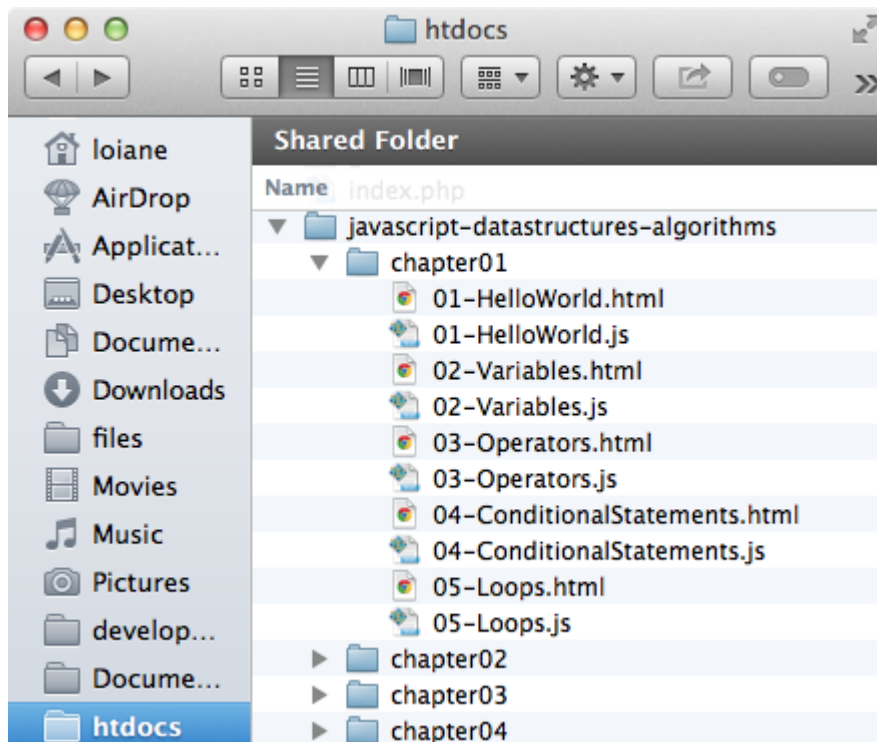
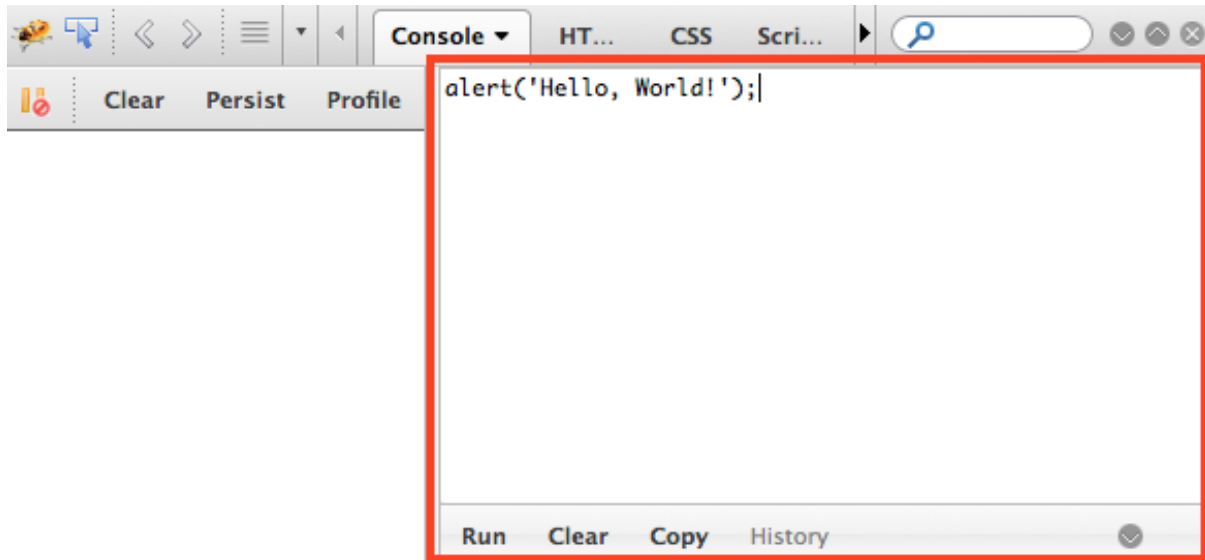
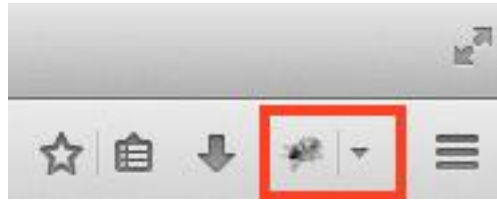
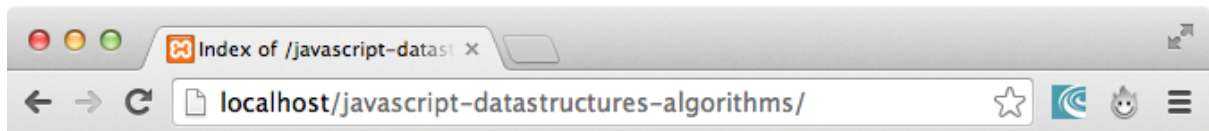


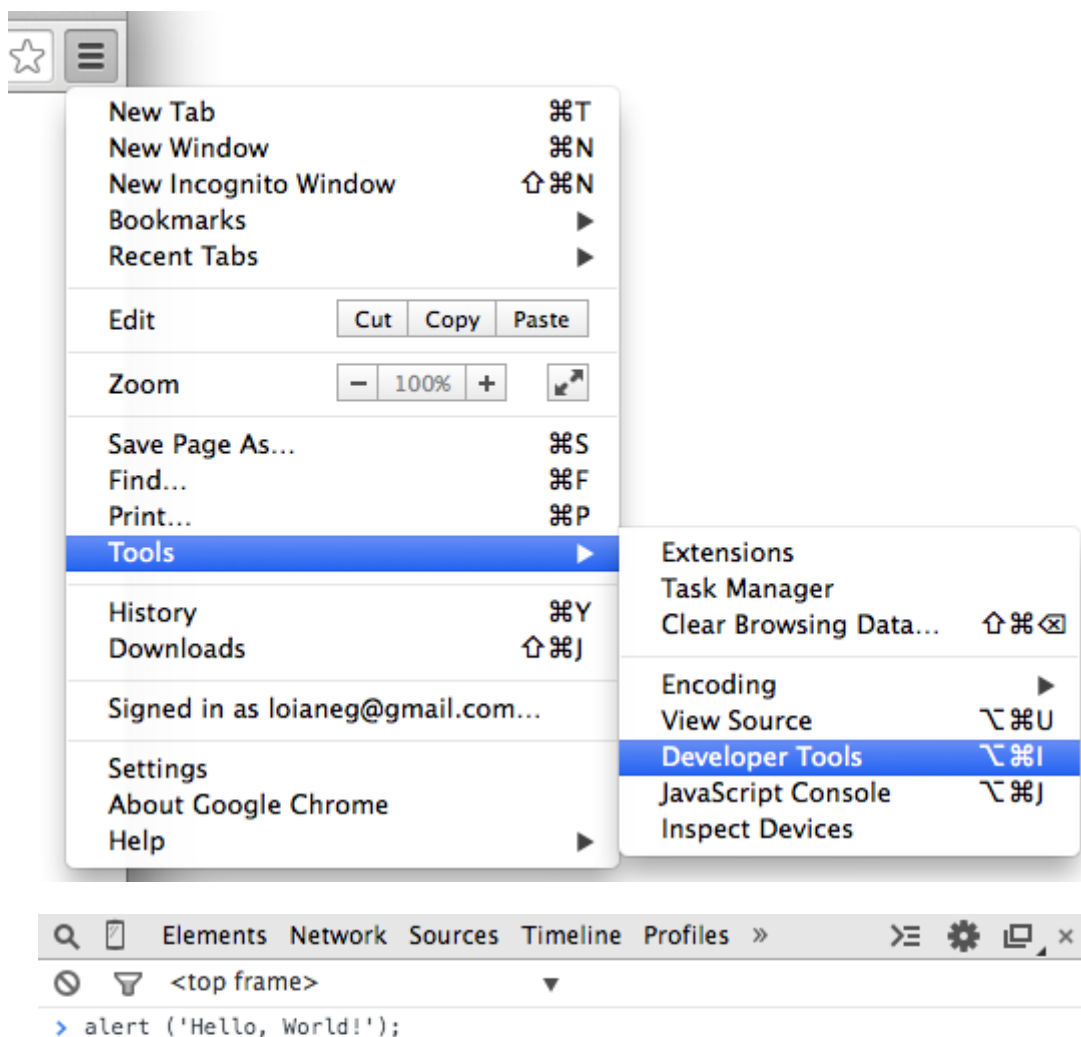
# Chapter 1: JavaScript – A Quick Overview



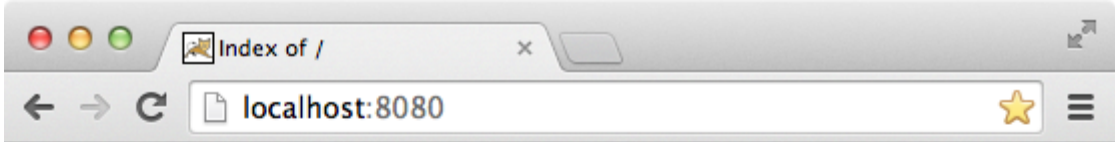


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- [.DS\\_Store](#)
- [chapter01/](#)
- [chapter02/](#)
- [chapter03/](#)
- [chapter04/](#)



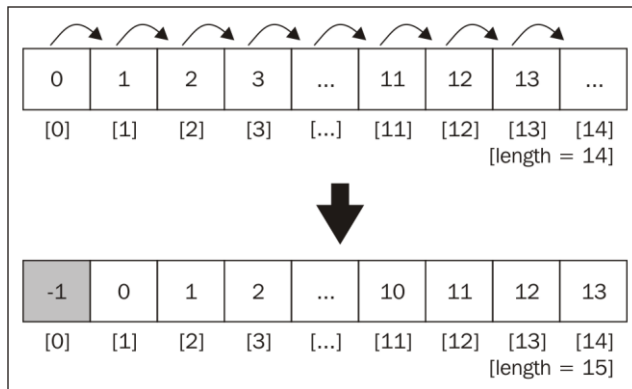
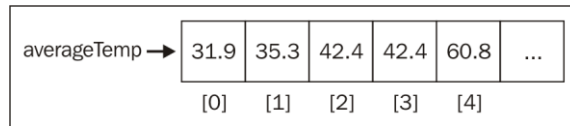
```
loianeg:~ loiane$ cd /Users/loiane/Documents/javascript-datastructures-algorithms
loianeg:javascript-datastructures-algorithms loiane$ http-server
Starting up http-server, serving ./ on port: 8080
Hit CTRL-C to stop the server
```

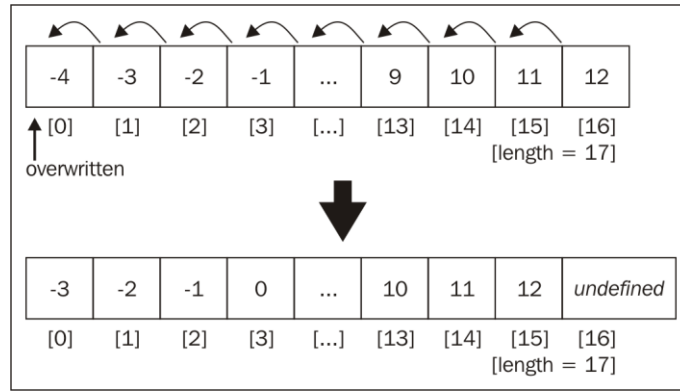


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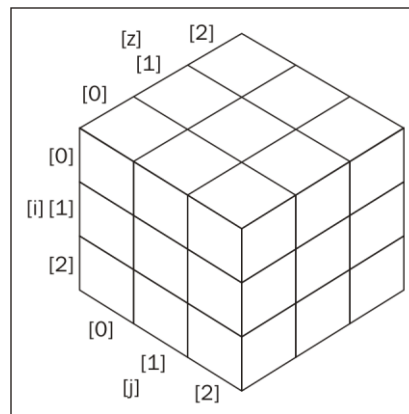
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- (drwxr-xr-x) [chapter09/](#)
- (drwxr-xr-x) [chapter10/](#)
- (drwxr-xr-x) [chapter05/](#)

## Chapter 2: Arrays

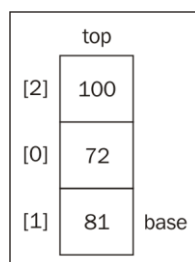


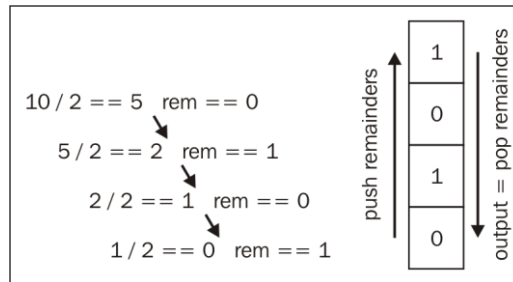
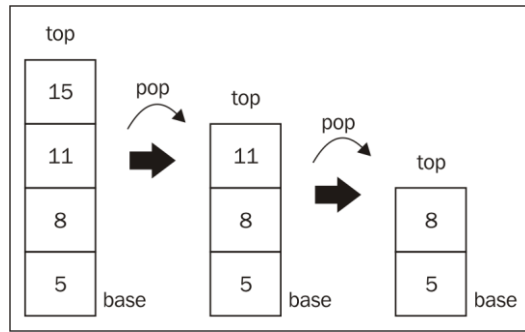
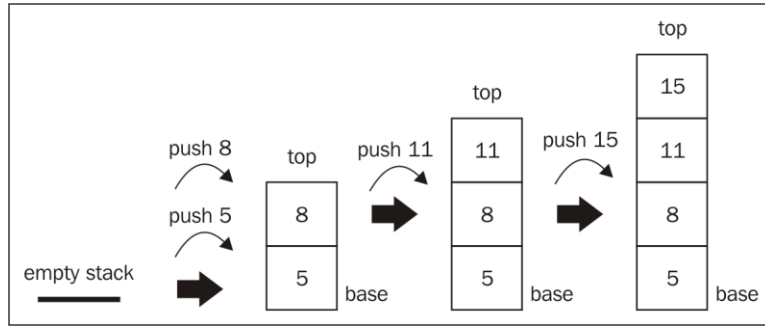


	[0]	[1]	[2]	[3]	[4]	[5]
[0]	72	75	79	79	81	81
[1]	81	79	75	75	73	73

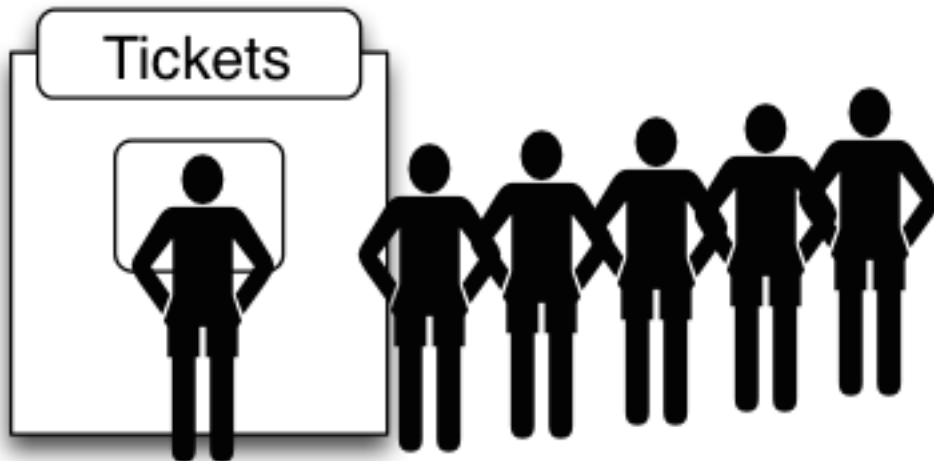


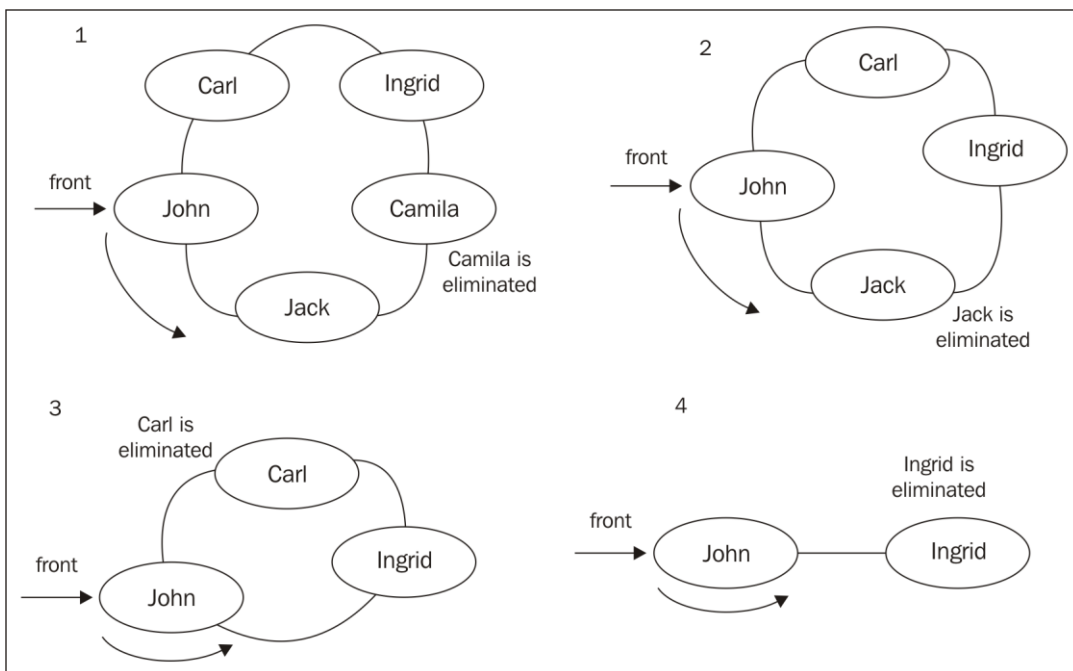
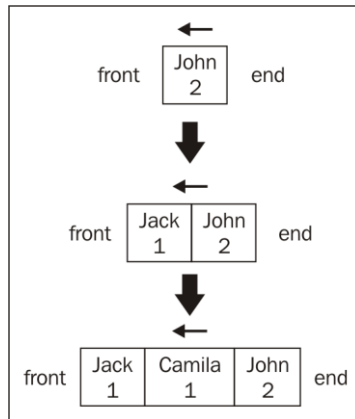
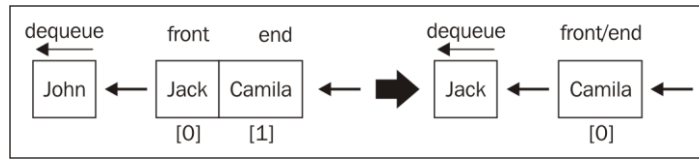
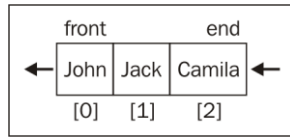
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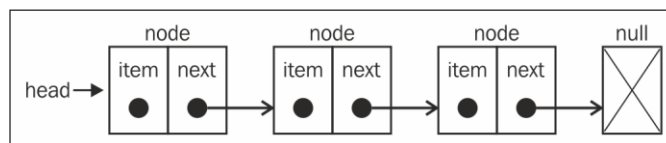


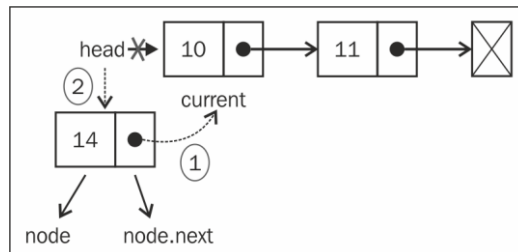
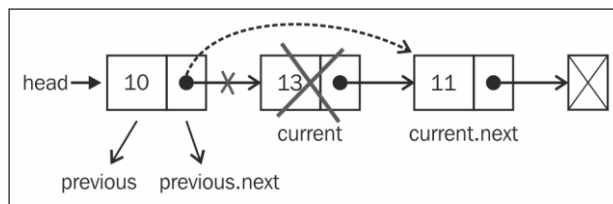
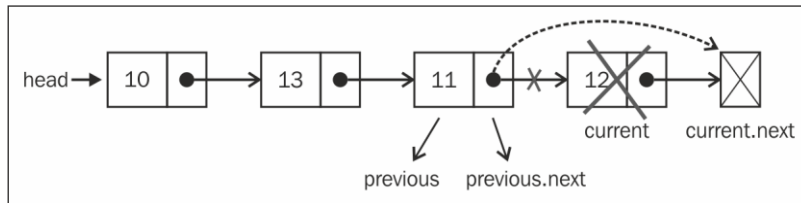
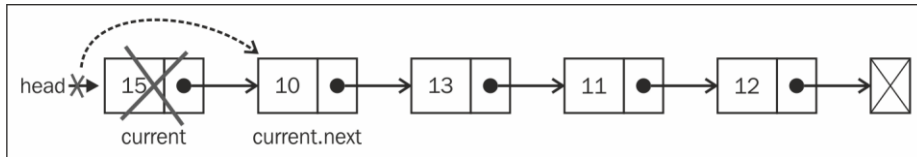
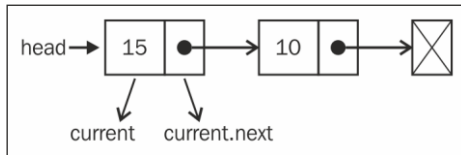
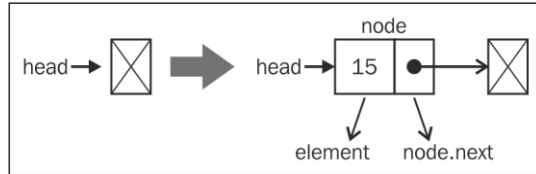
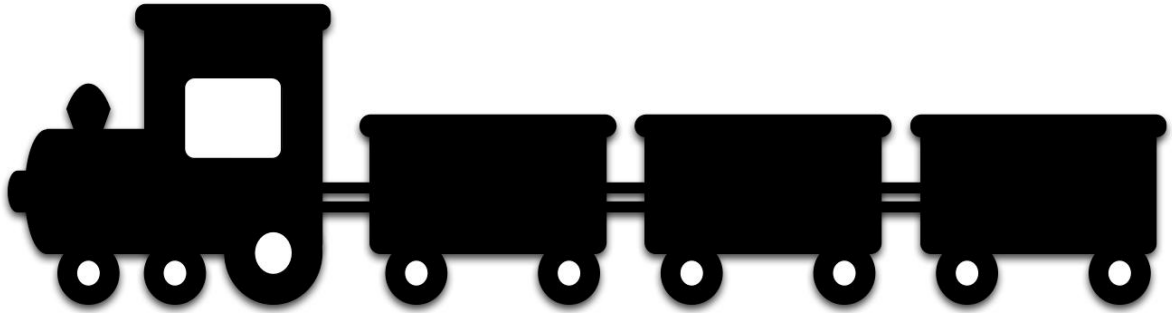
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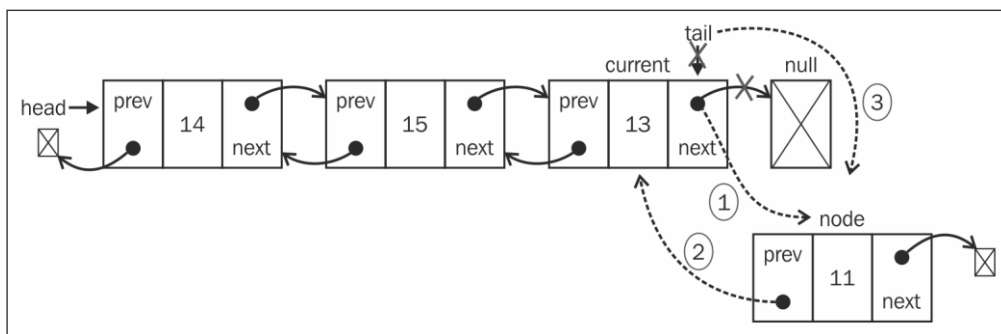
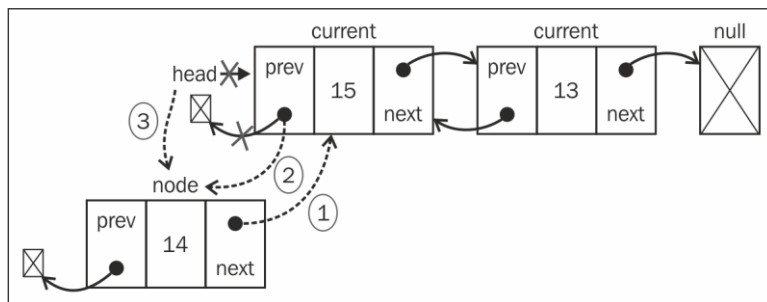
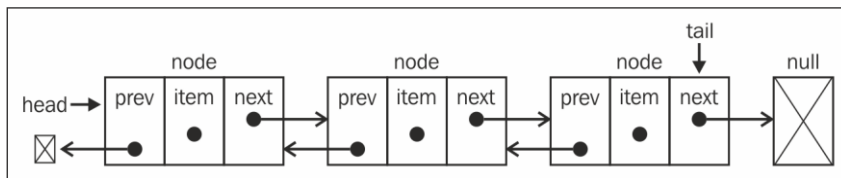
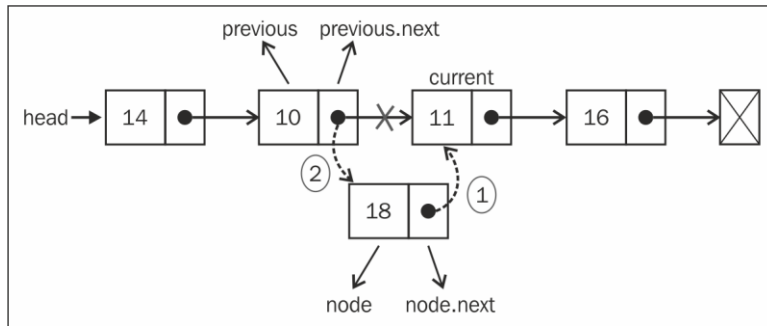
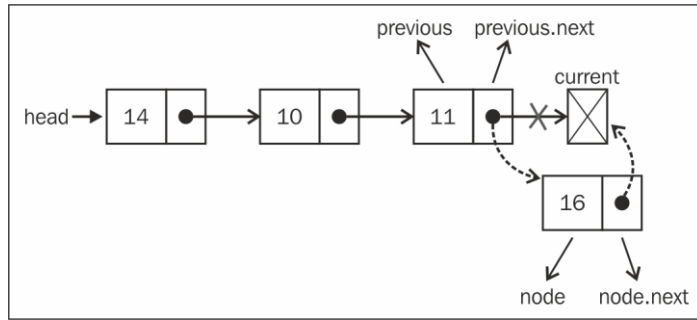




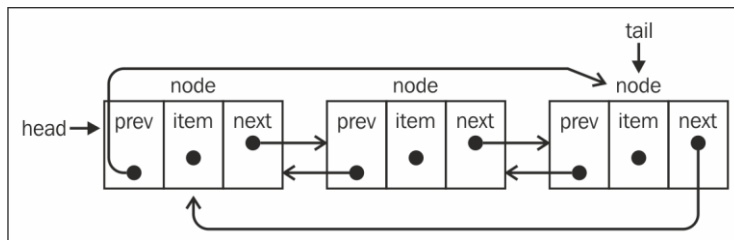
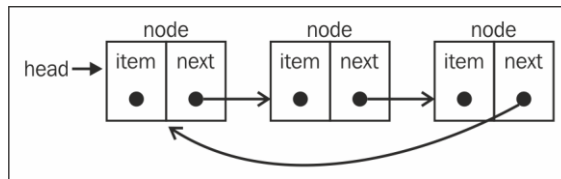
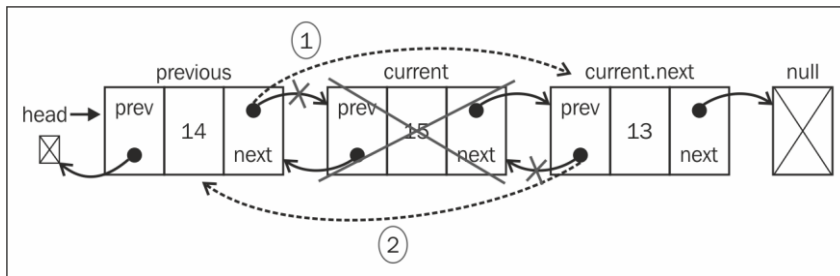
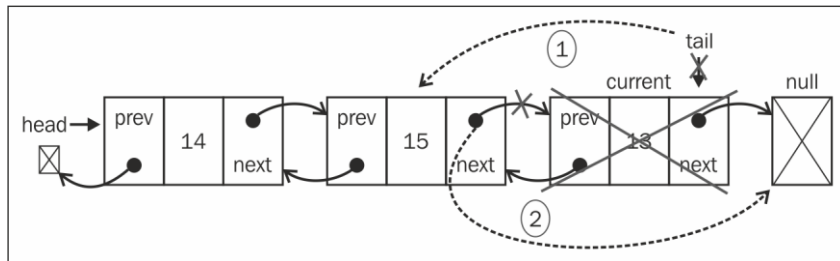
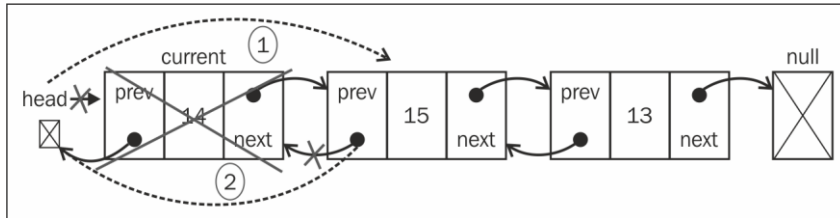
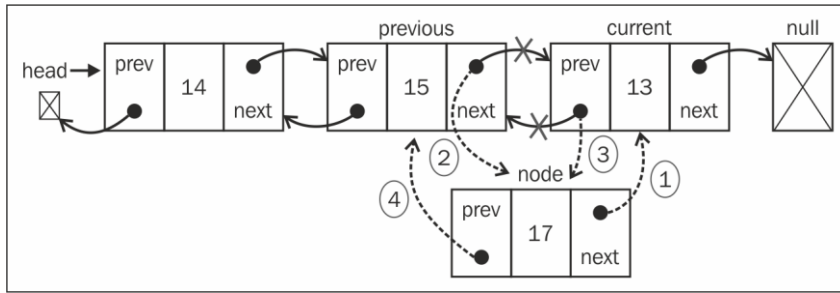
## Chapter 5: Linked Lists



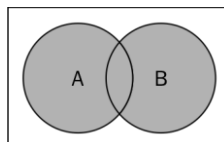


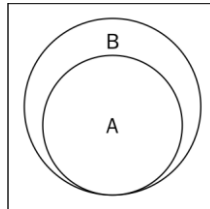
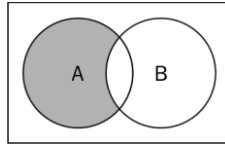
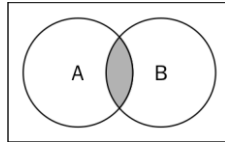






## Chapter 6: Sets

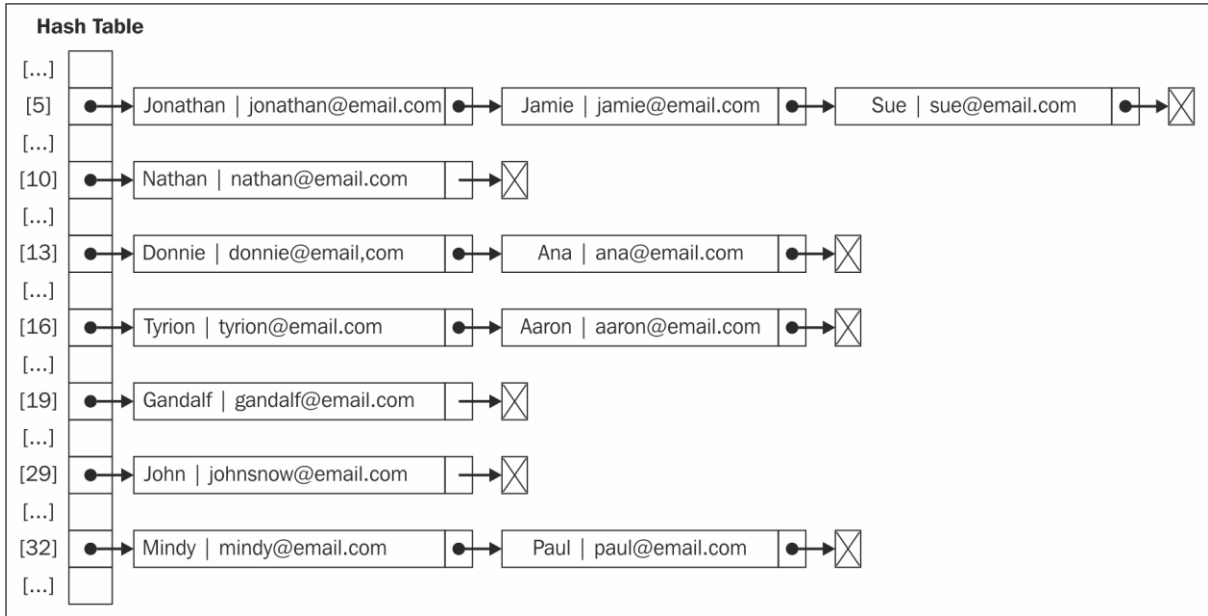




## Chapter 7: Dictionaries and Hashes

Name/Key	Hash Function	Hash Value	Hash Table
Gandalf	$71 + 97 + 110 + 100 + 97 + 108 + 102$	685	[...] [399] johnsnow@email.com
John	$74 + 111 + 104 + 110$	399	[...] [645] tyrion@email.com
Tyrion	$84 + 121 + 114 + 105 + 111 + 110$	645	[...] [685] gandalf@email.com
			[...]

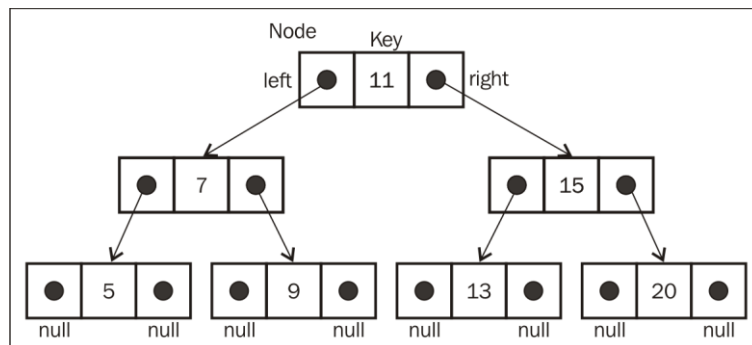
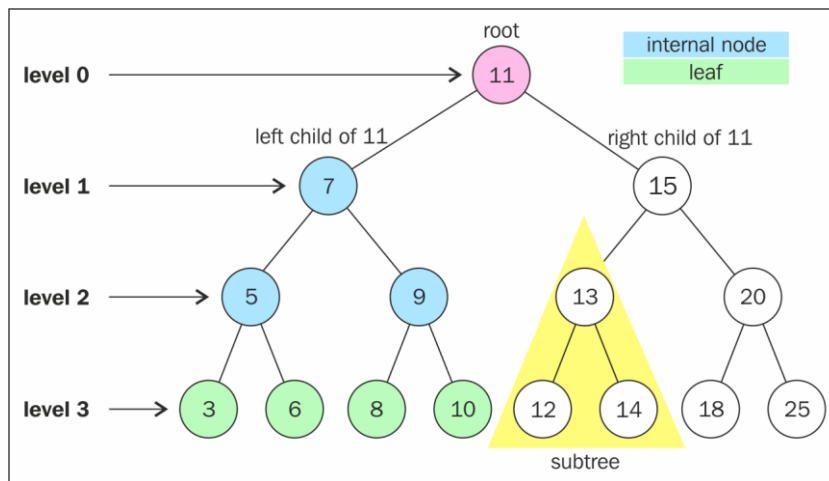
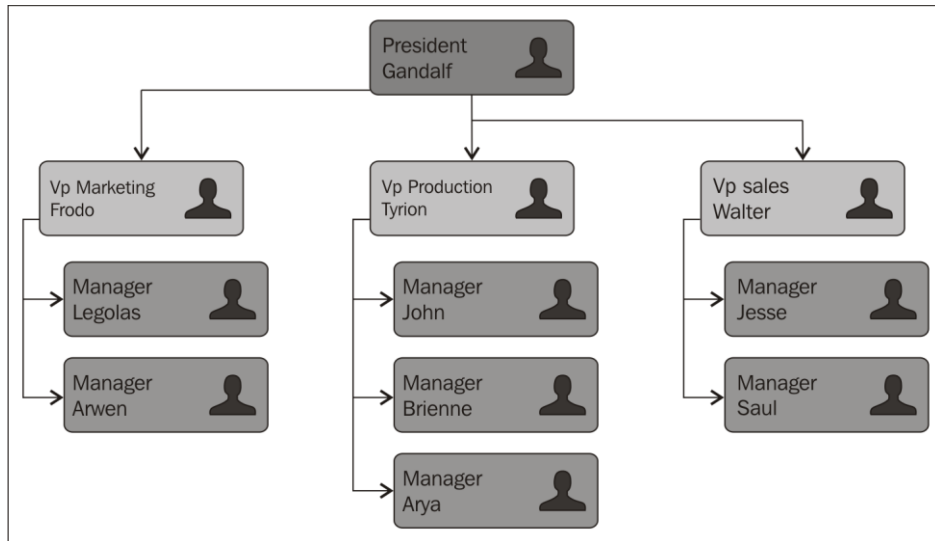
Name/Key	Hash Value	Hash Table
Gandalf	19	[...] [16] tyrion@email.com
John	29	[...] [19] gandalf@email.com
Tyrion	16	[...] [29] johnsnow@email.com
		[...]

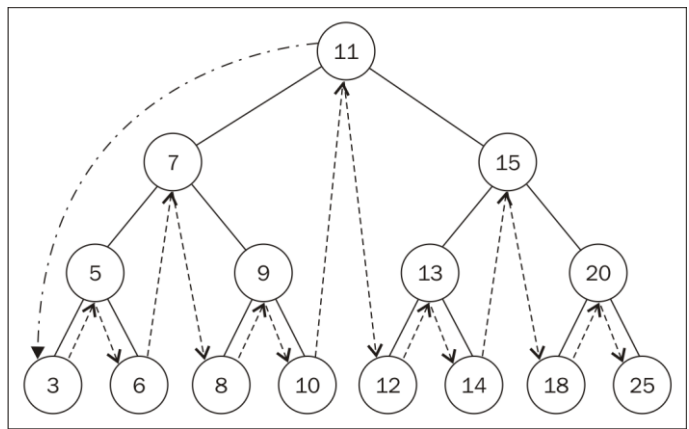
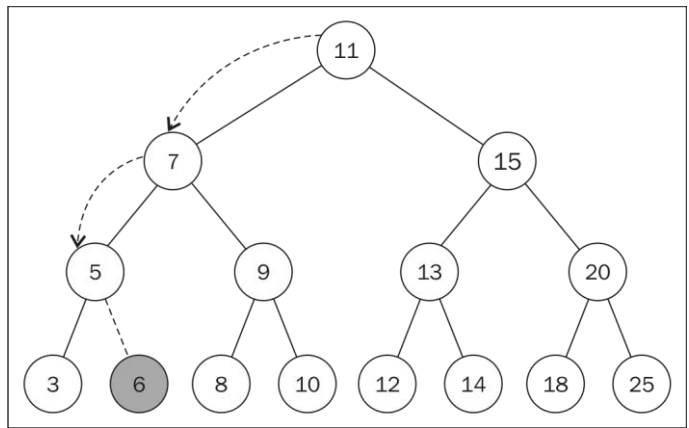
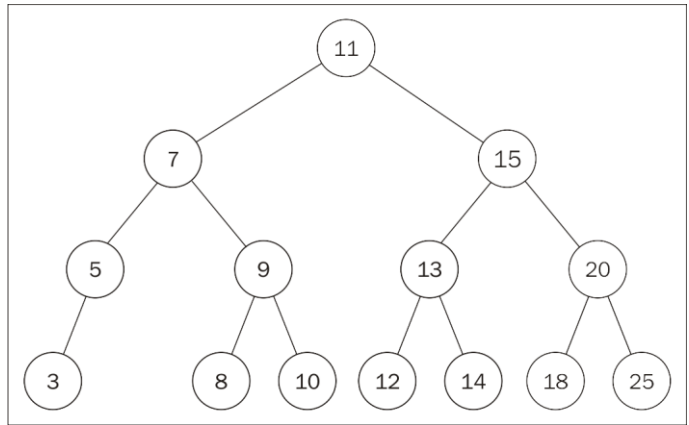


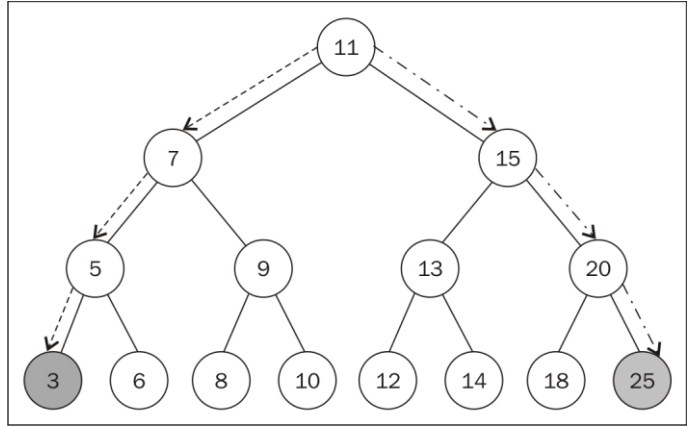
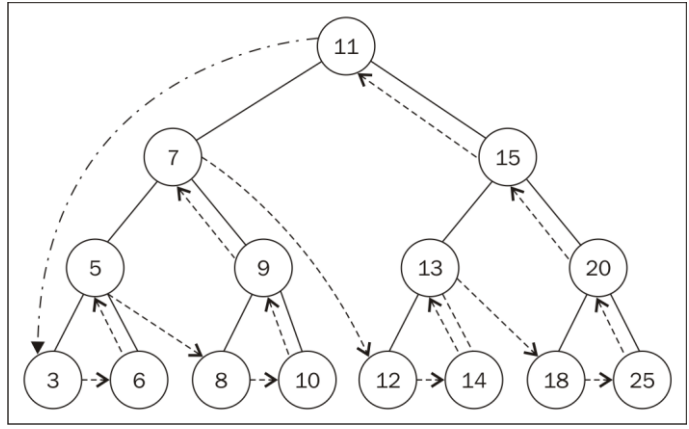
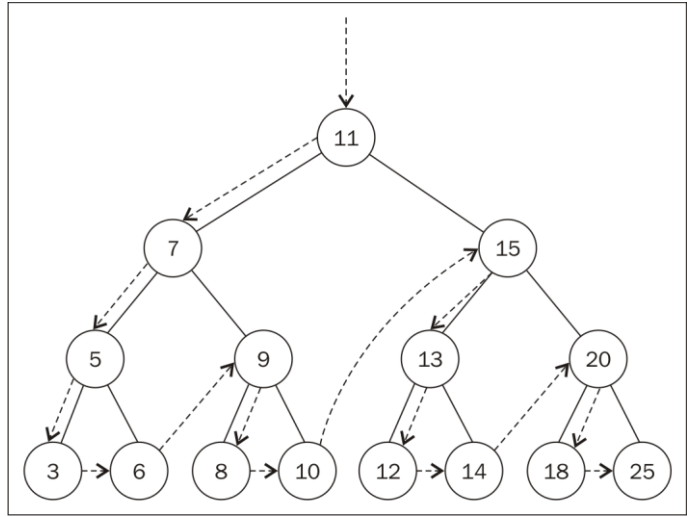
**Hash Table**

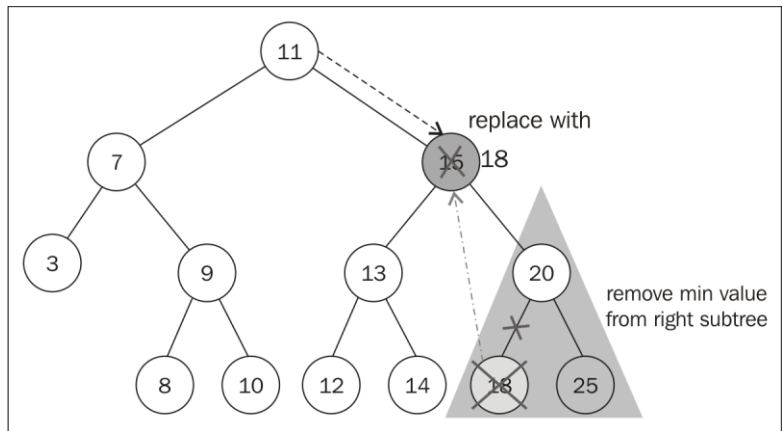
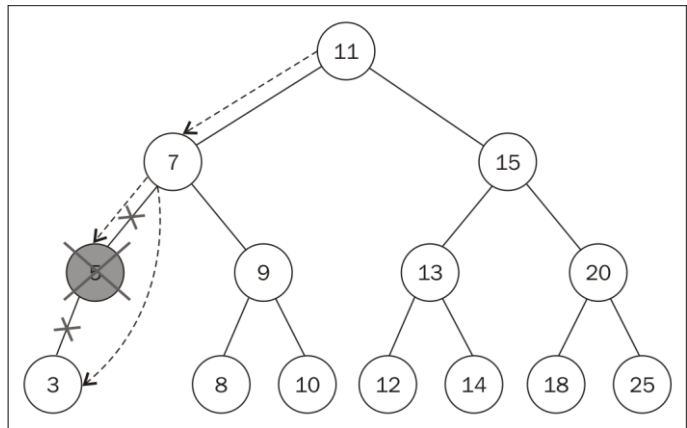
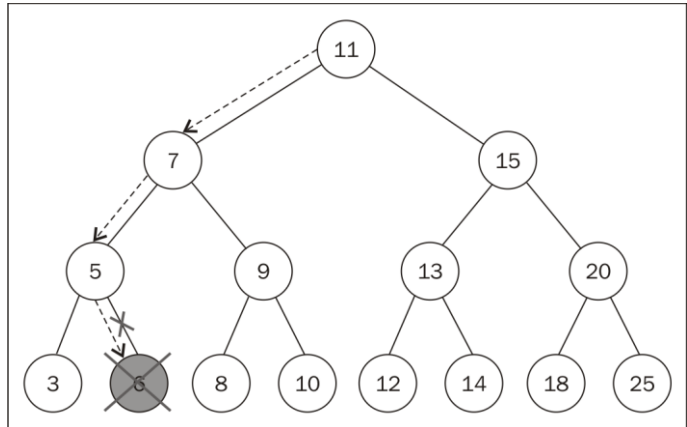
[...]	
[5]	Jonathan   jonathan@email.com
[6]	Jamie   jamie@email.com
[7]	Sue   sue@email.com
[...]	
[10]	Nathan   nathan@email.com
[...]	
[13]	Donnie   donnie@email.com
[14]	Ana   ana@email.com
[...]	
[16]	Tyrion   tyrion@email.com
[17]	Aaron   aaron@email.com
[18]	
[19]	Gandalf   gandalf@email.com
[...]	
[19]	John   johnsnow@email.com
[...]	

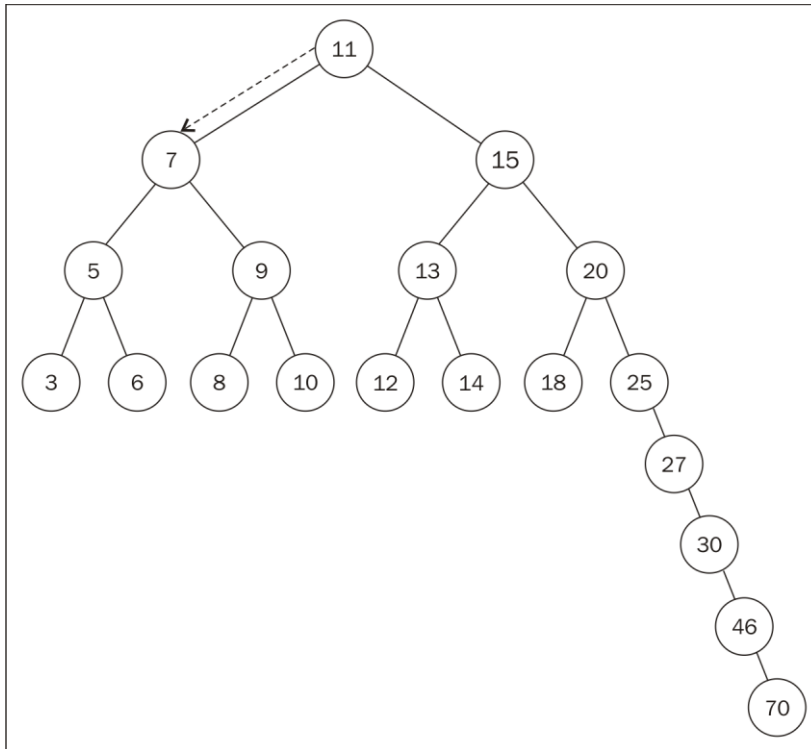
# Chapter 8: Trees



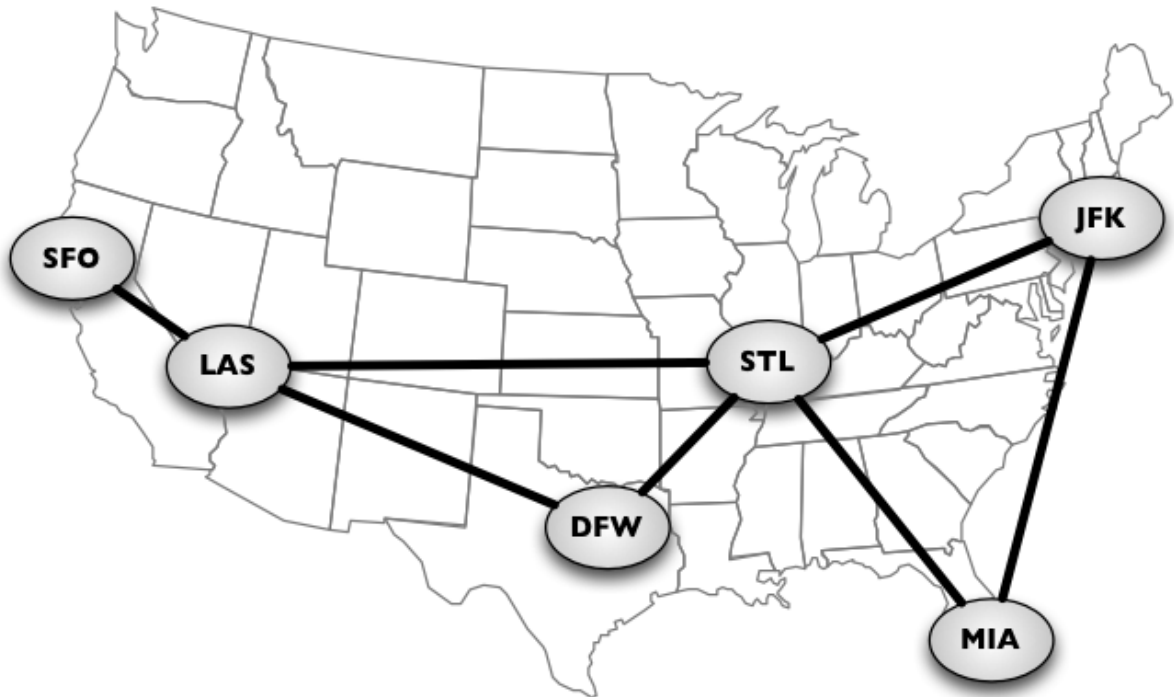




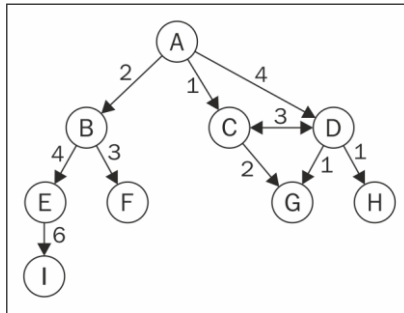
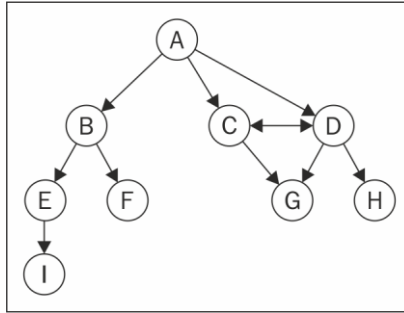
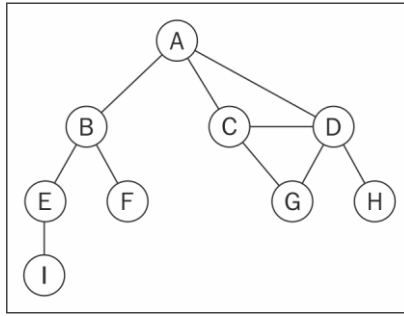




## Chapter 9: Graphs

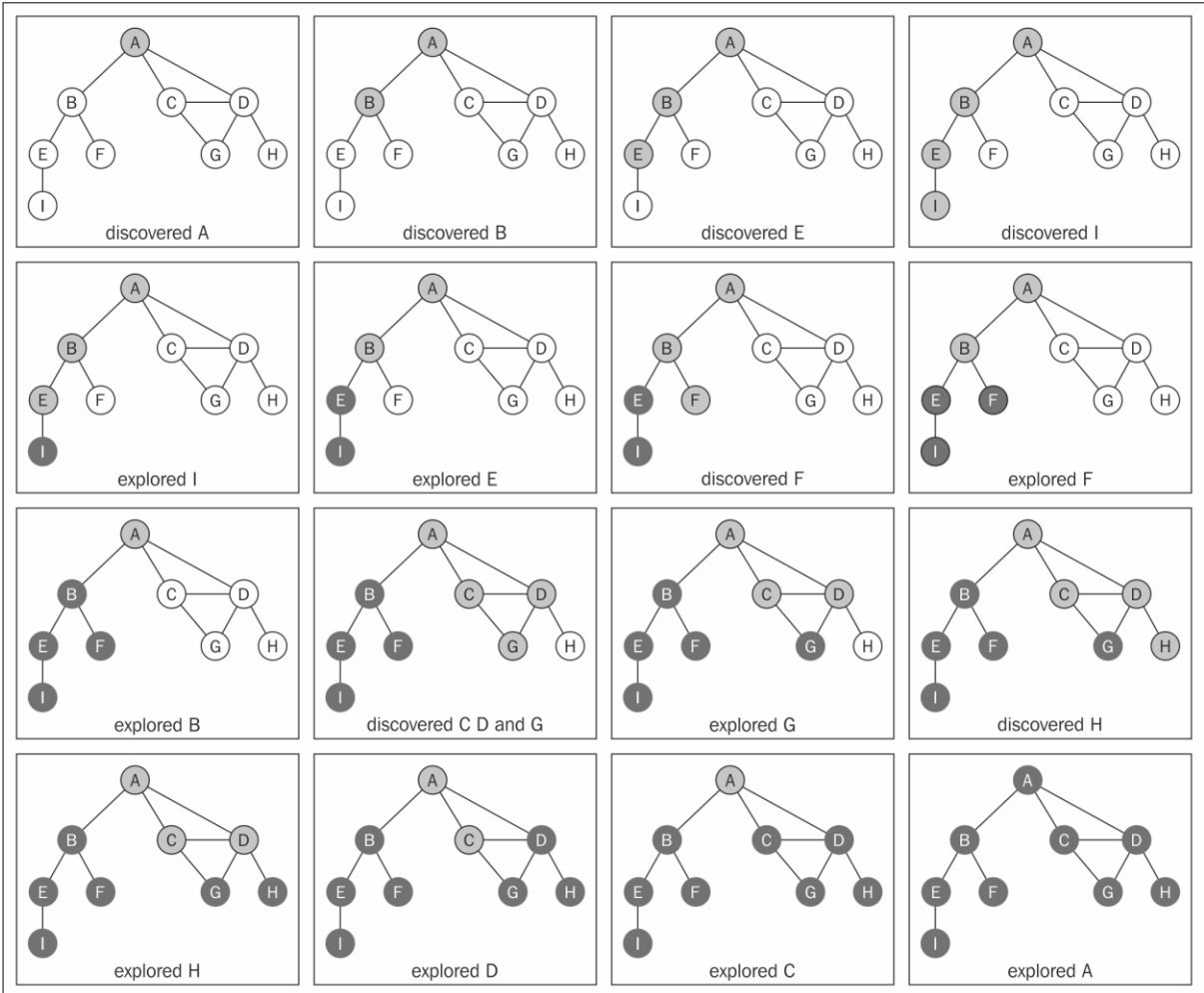
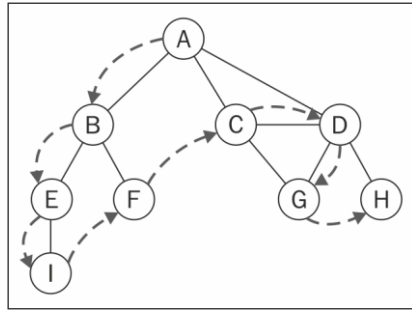
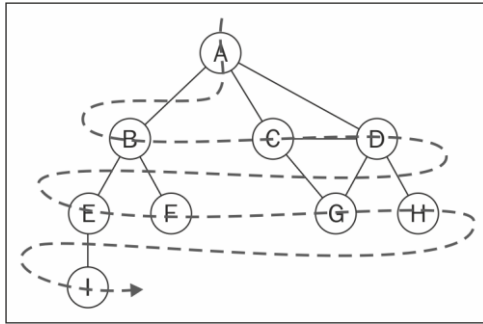


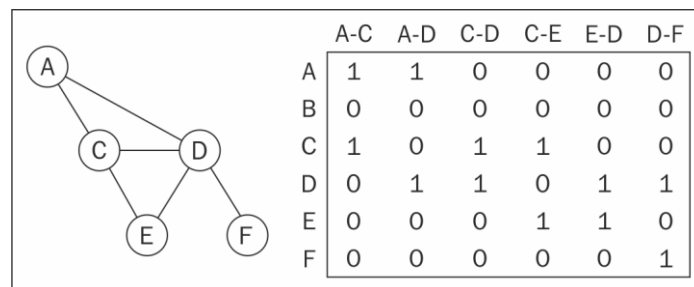
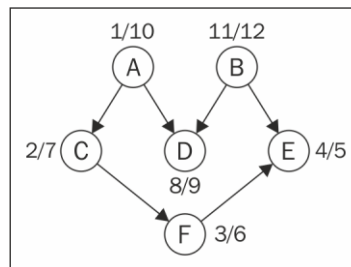
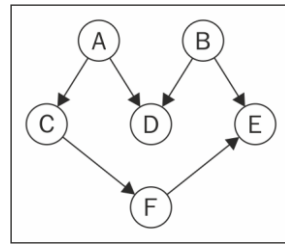
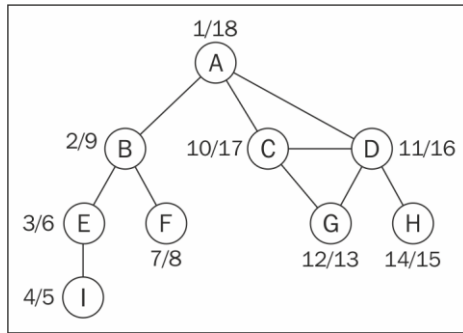




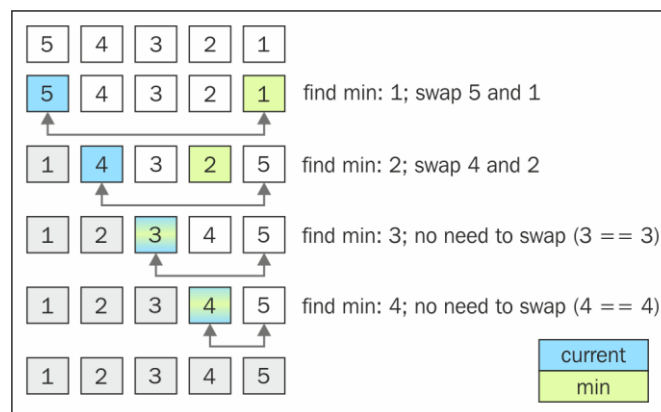
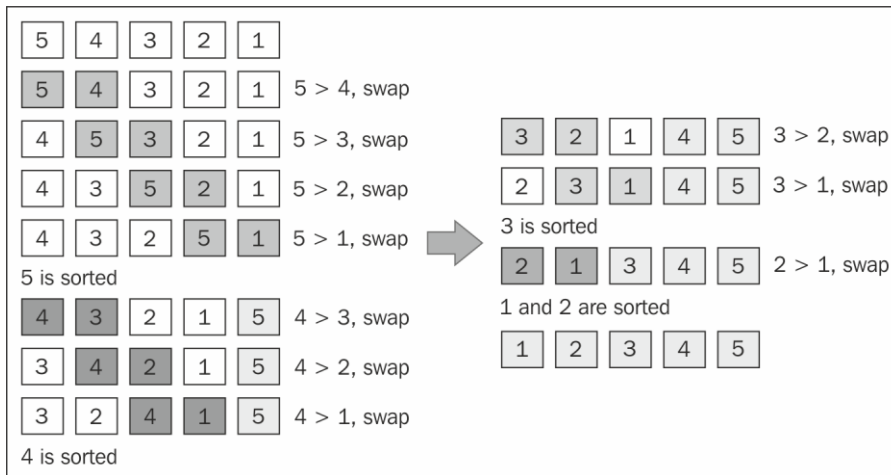
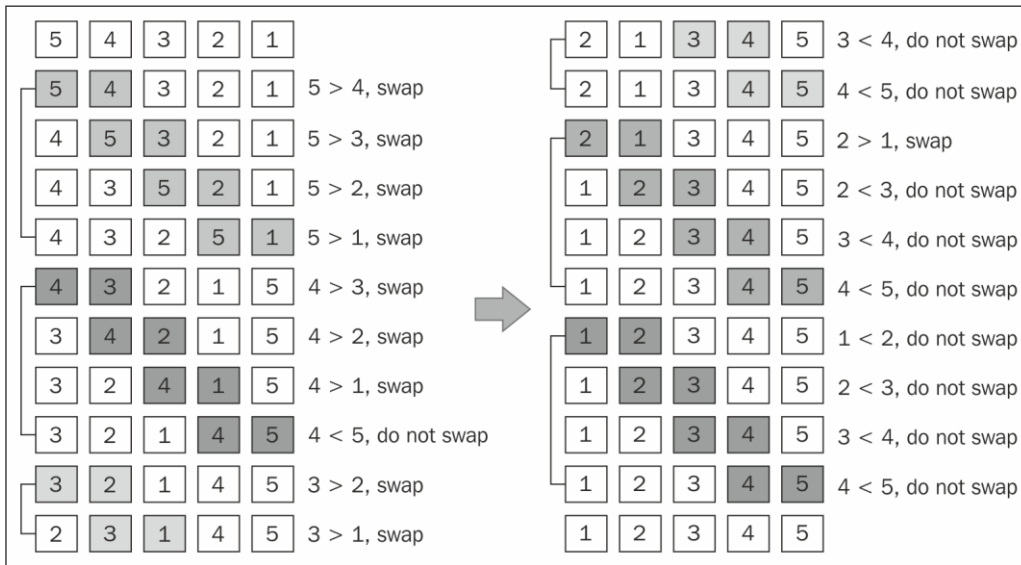
	A	B	C	D	E	F	G	H	I
A	0	1	1	1	0	0	0	0	0
B	1	0	0	0	1	1	0	0	0
C	1	0	0	1	0	0	1	0	0
D	1	0	1	0	0	0	1	1	0
E	0	1	0	0	0	0	0	0	1
F	0	1	0	0	0	0	0	0	0
G	0	0	1	1	0	0	0	0	0
H	0	0	0	1	0	0	0	0	0
I	0	0	0	0	1	0	0	0	0

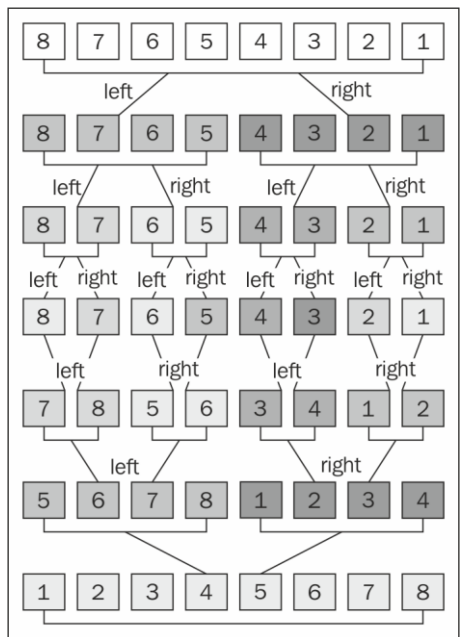
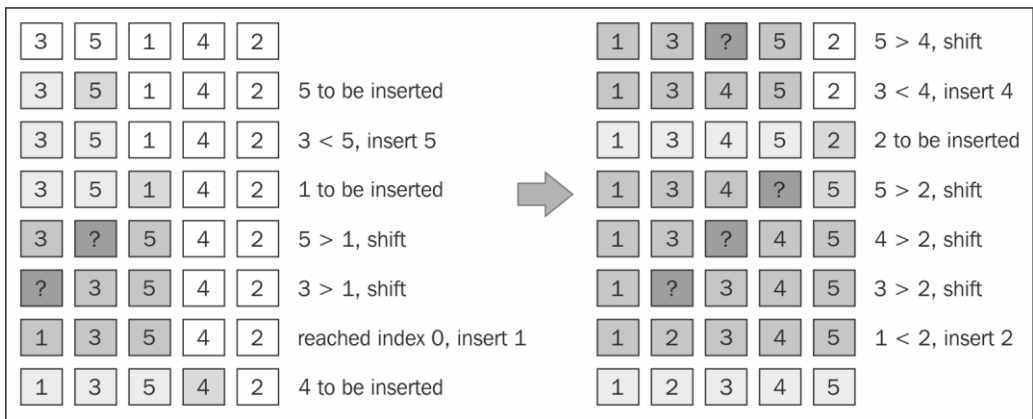
A	B	C	D
B	A	E	F
C	A	D	G
D	A	C	G
E	B	I	
F	B		
G	C	D	
H	D		
I	E		

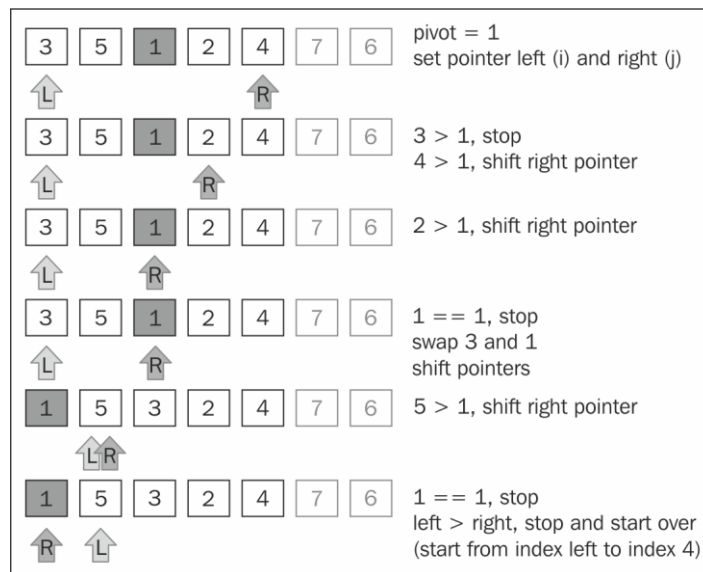
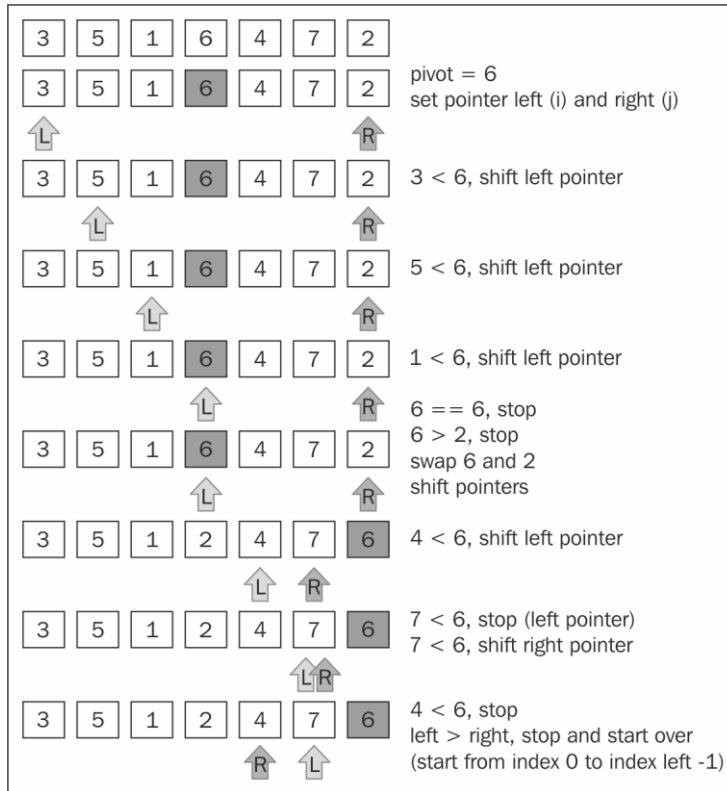


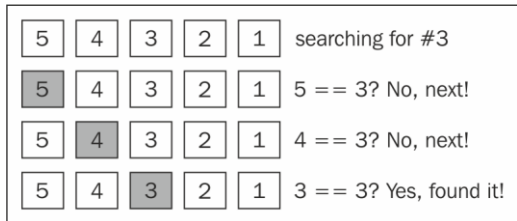
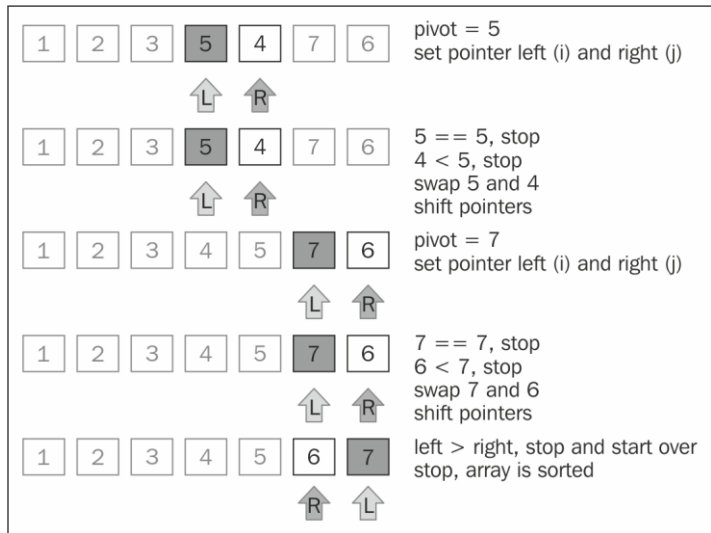
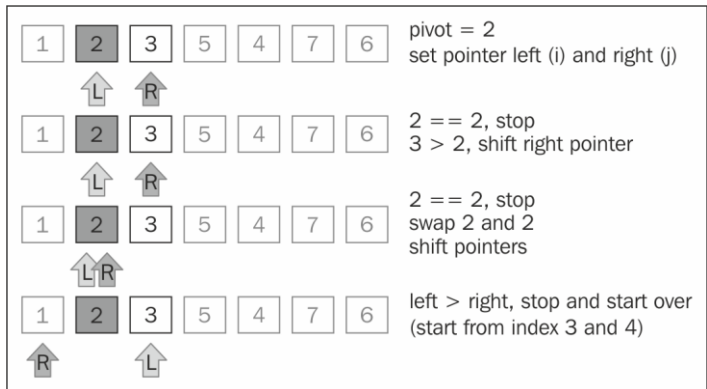
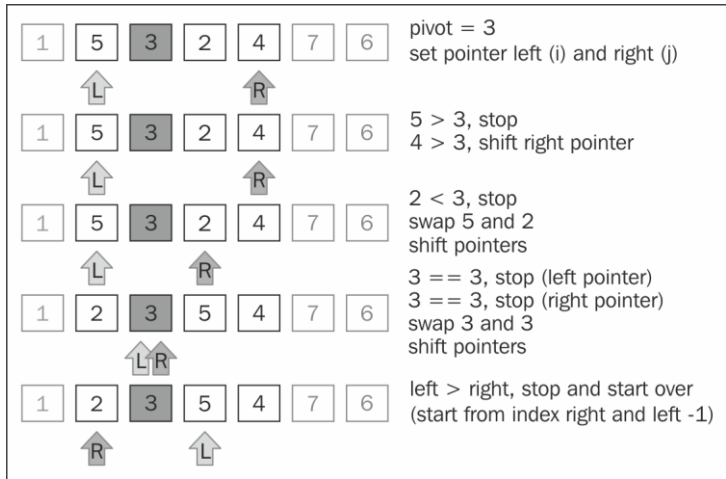


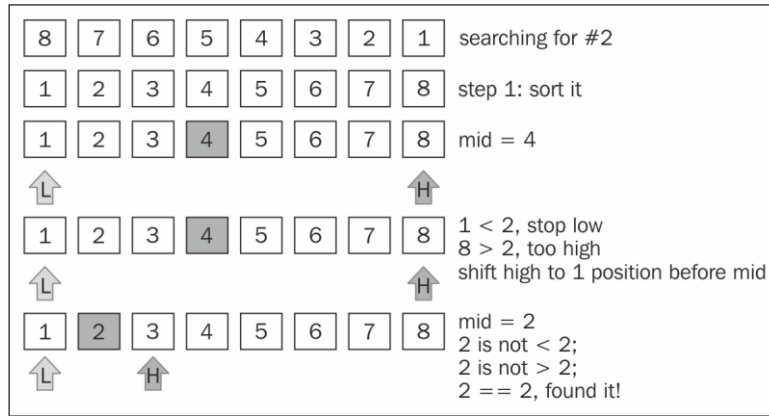
# Chapter 10: Sorting and Searching Algorithms



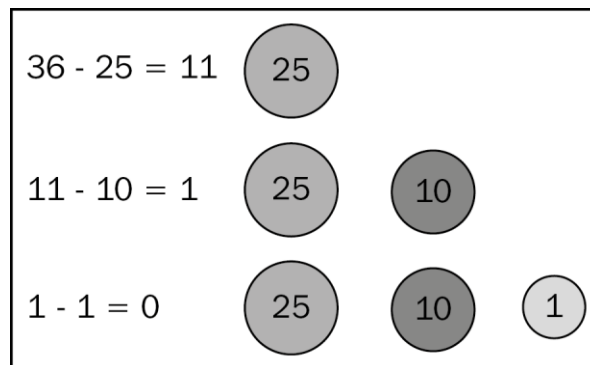
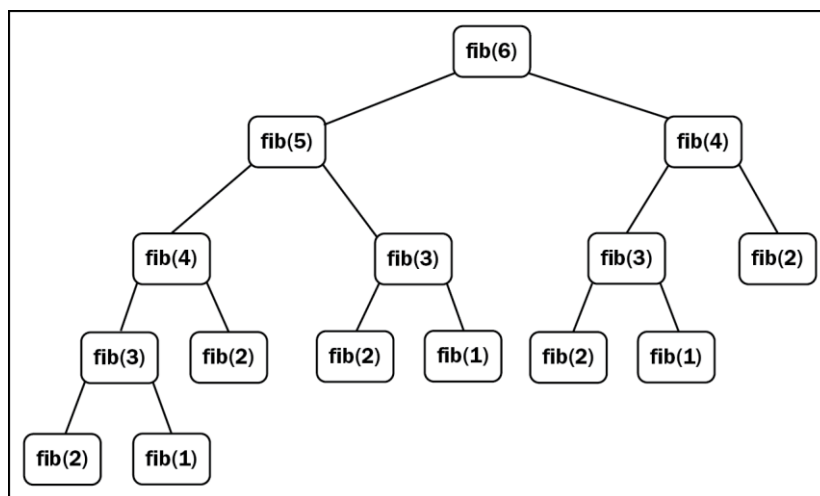








## Chapter 11: More About Algorithms





Big O Notation Complexity Chart

