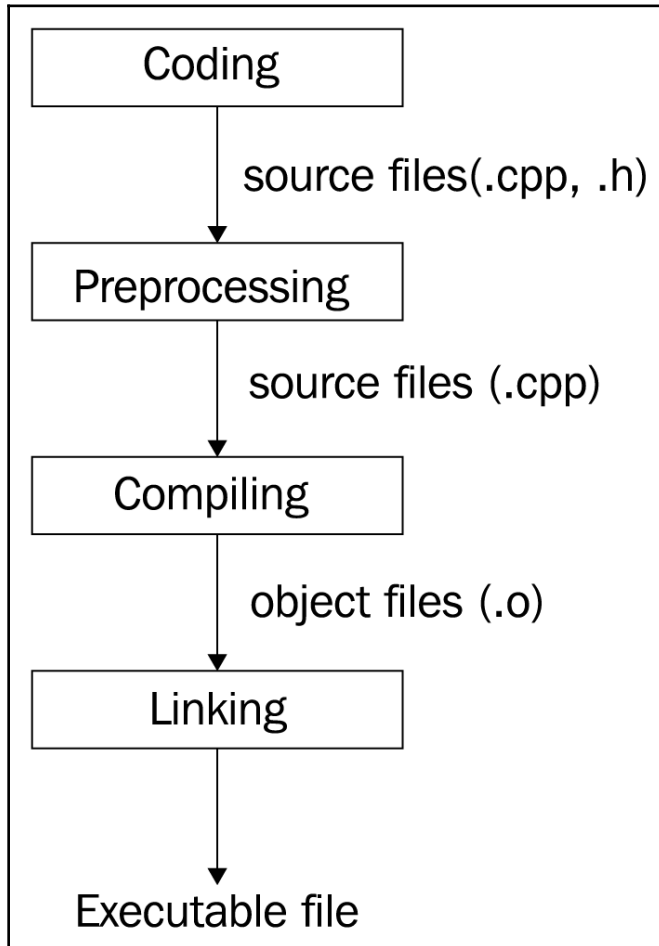
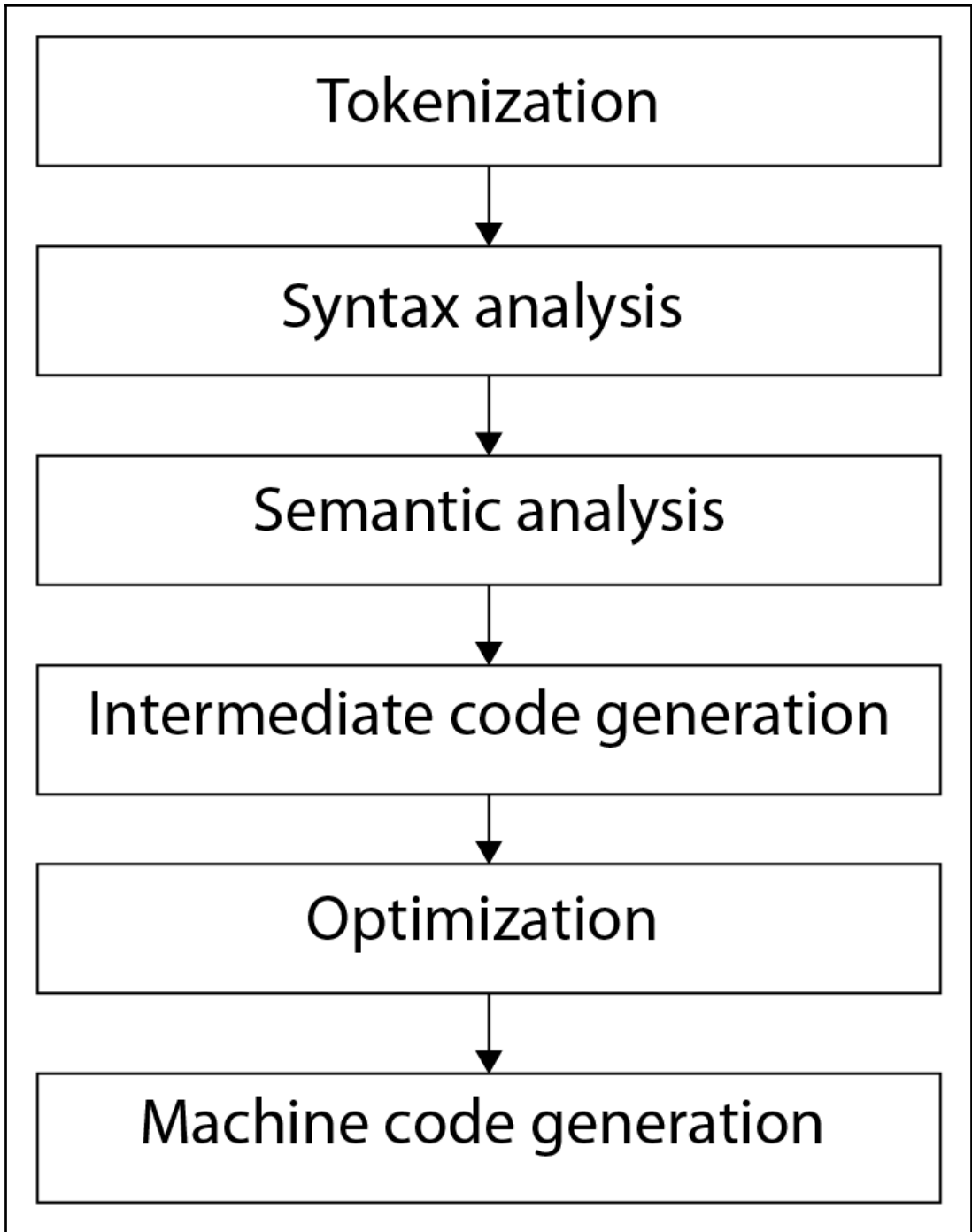
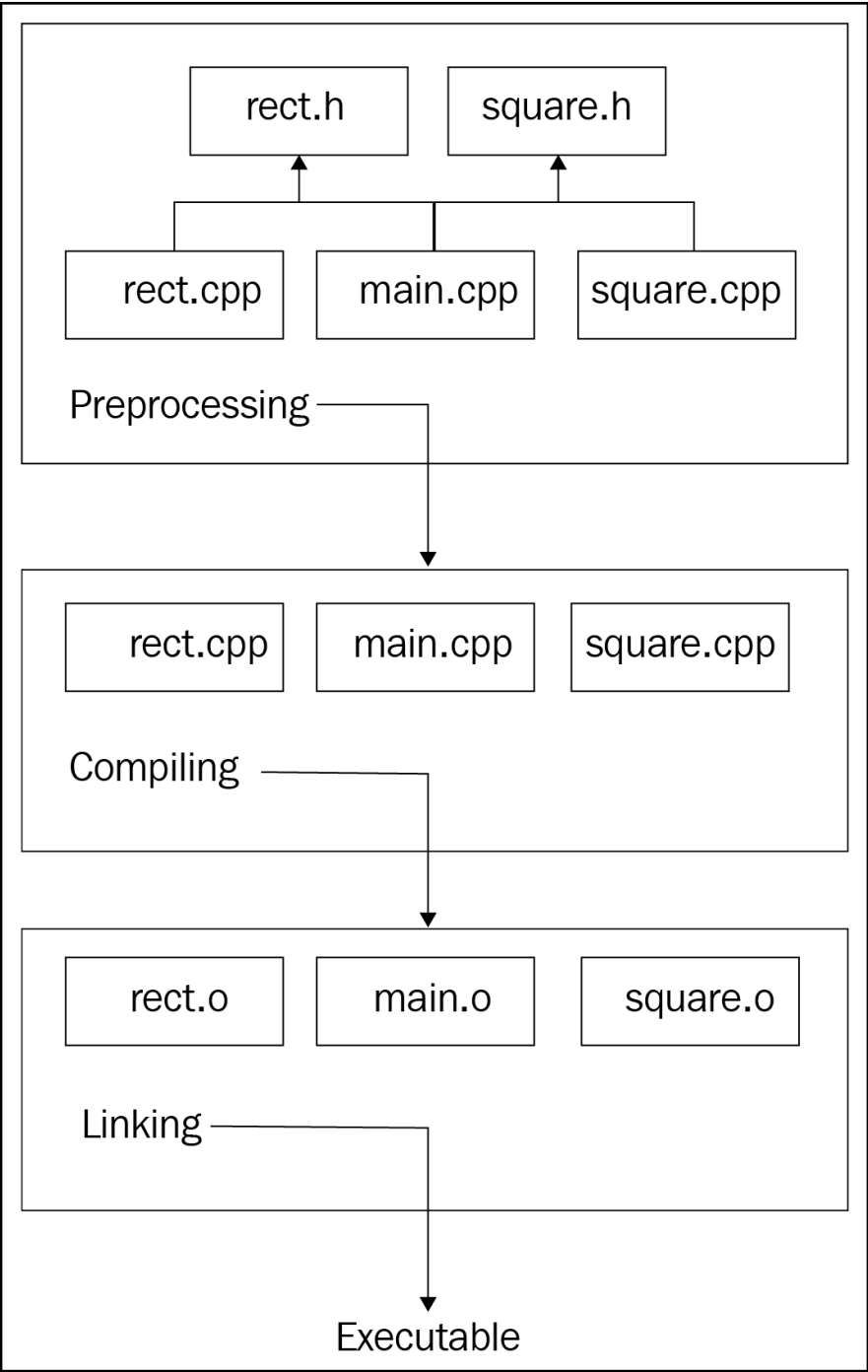


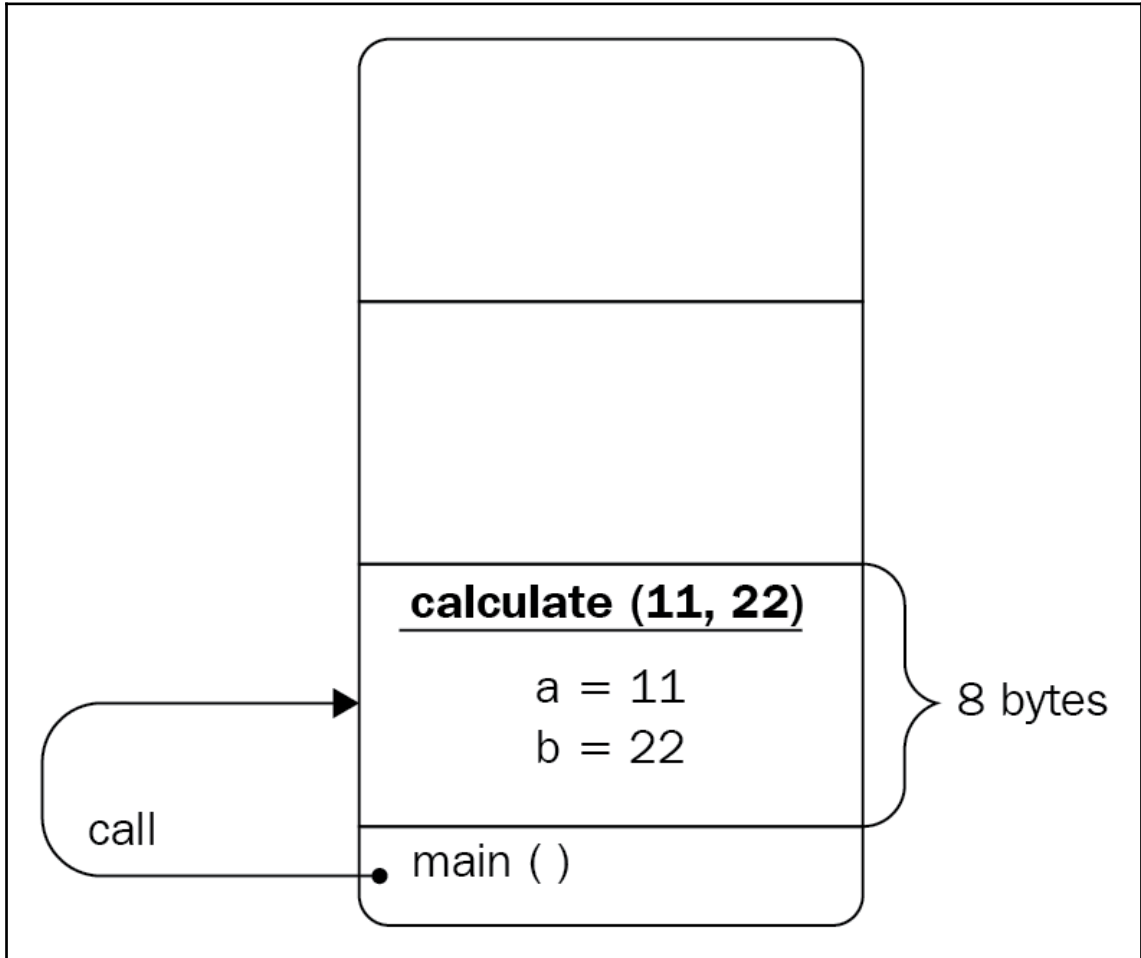
Chapter 1: Introduction to Building C++ Applications

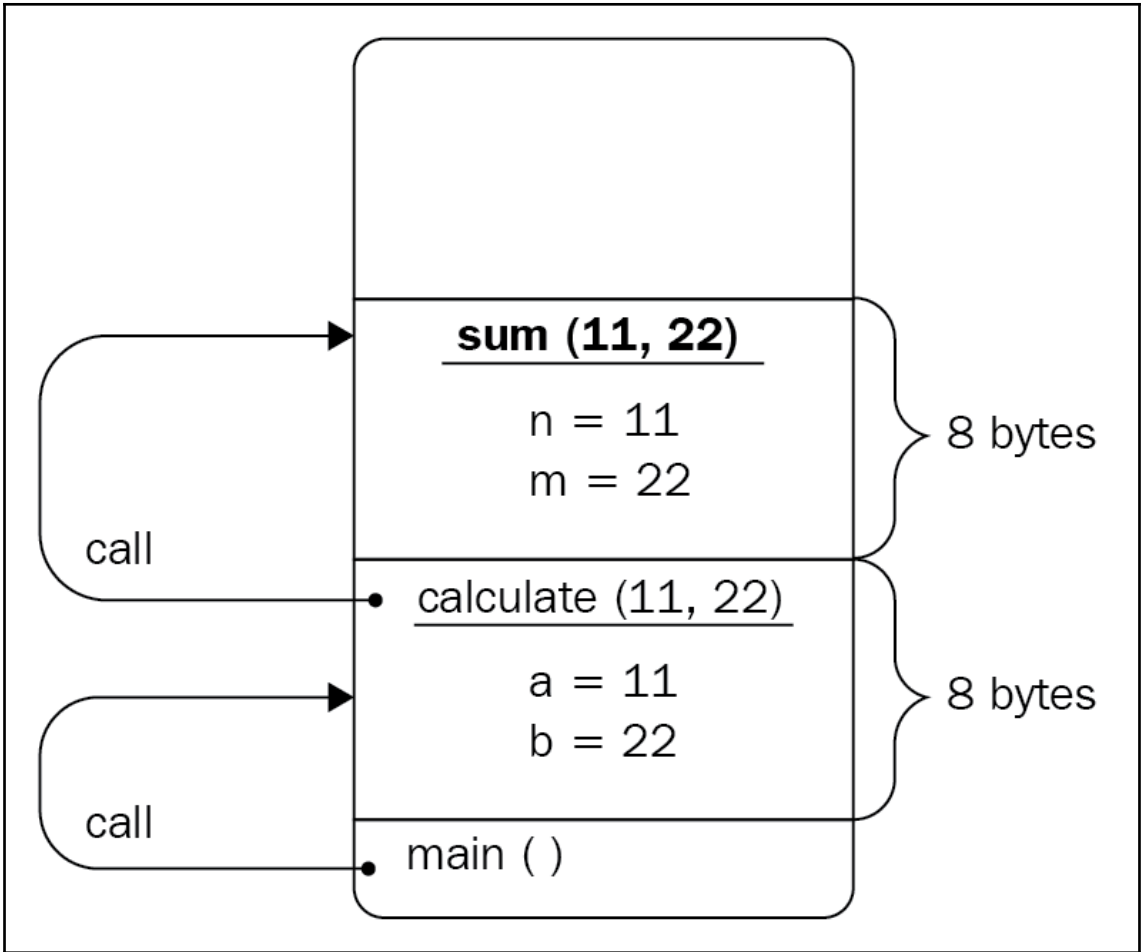


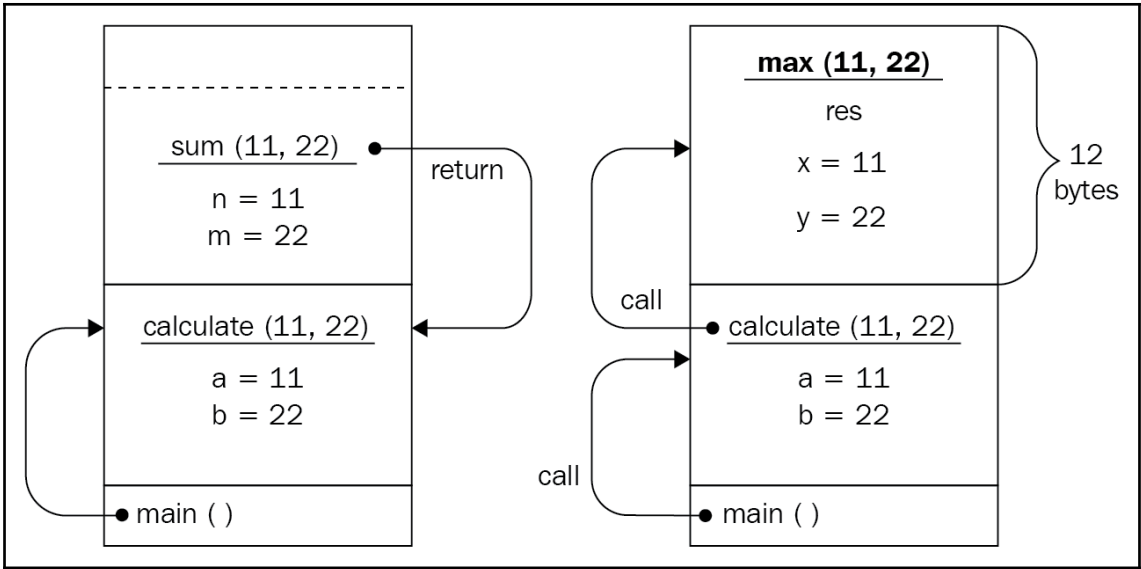


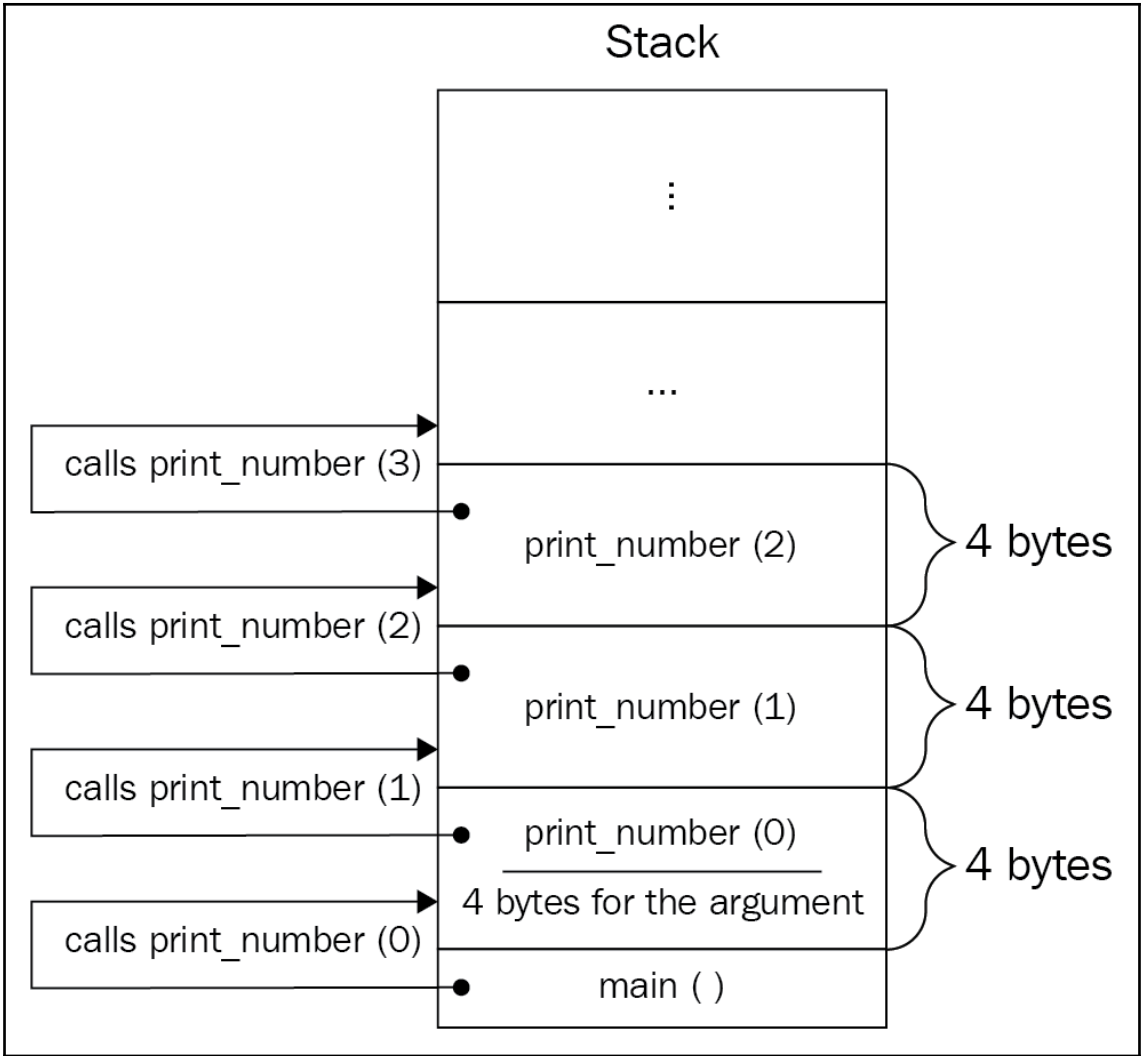


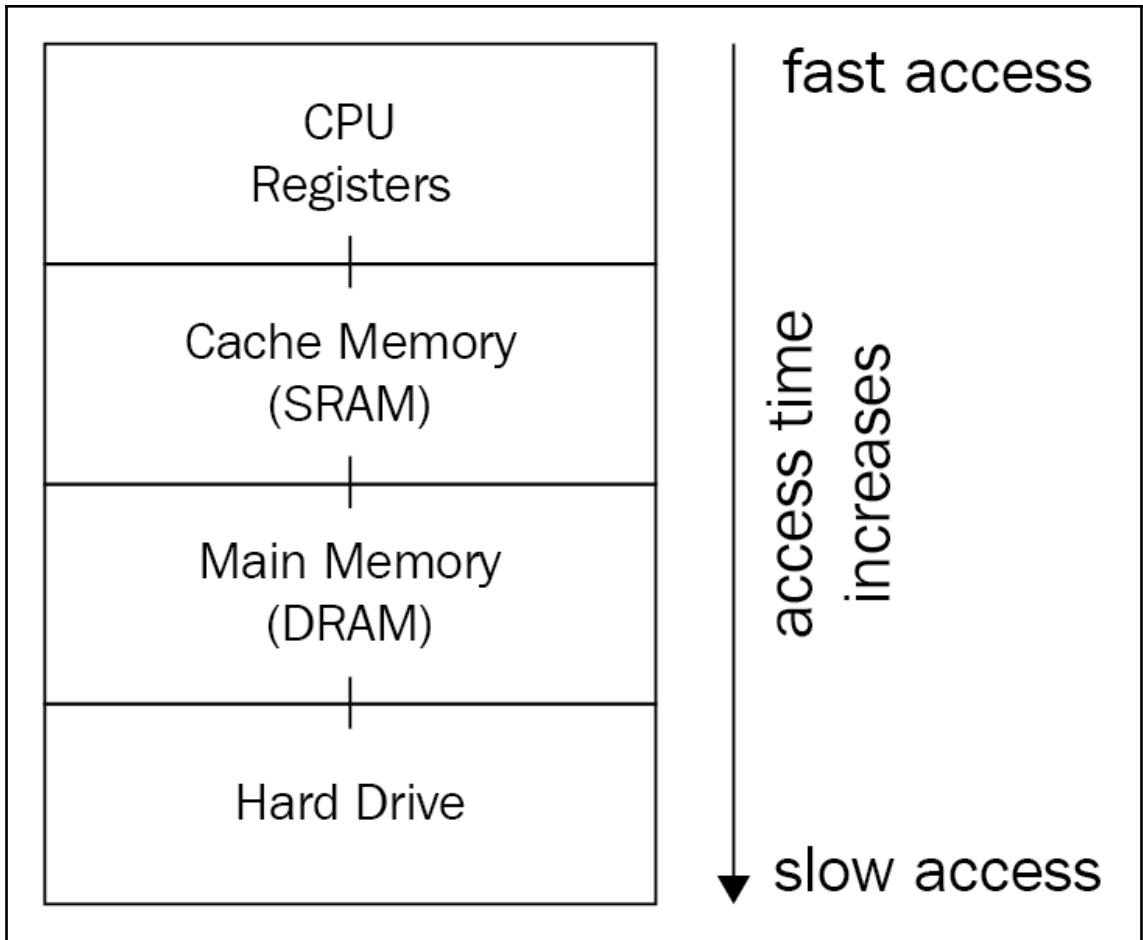
Chapter 2: Low-Level Programming with C++

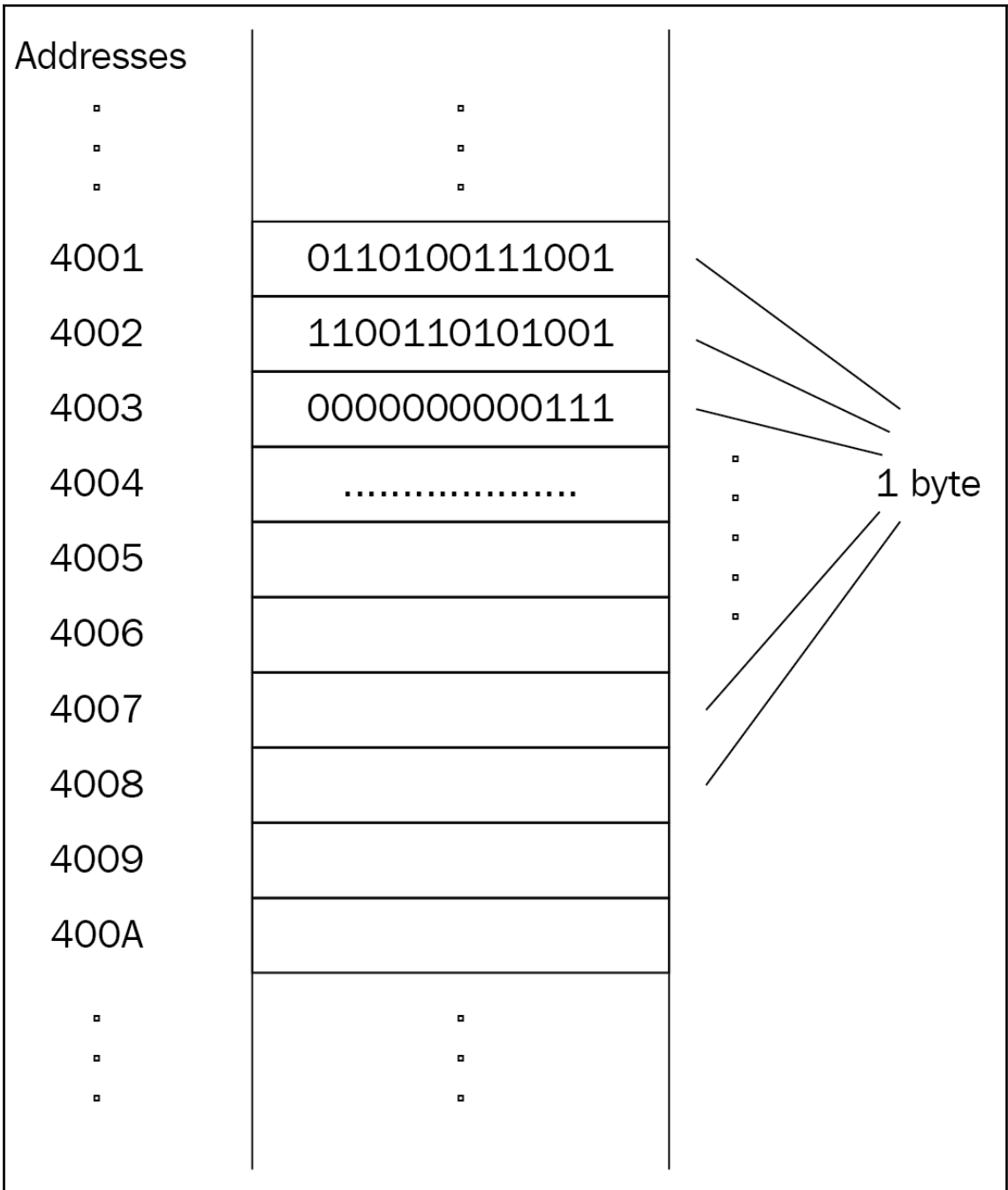


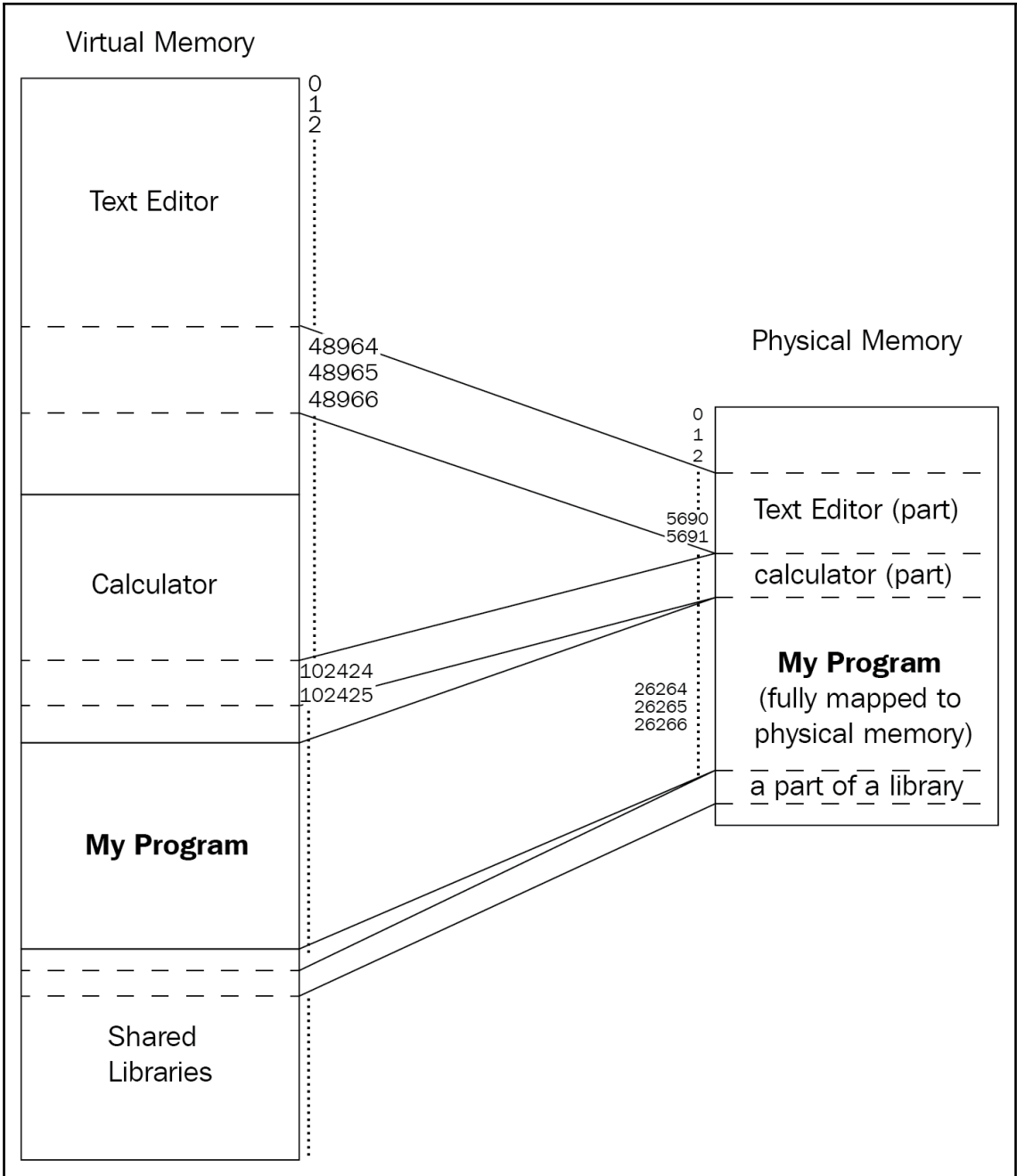








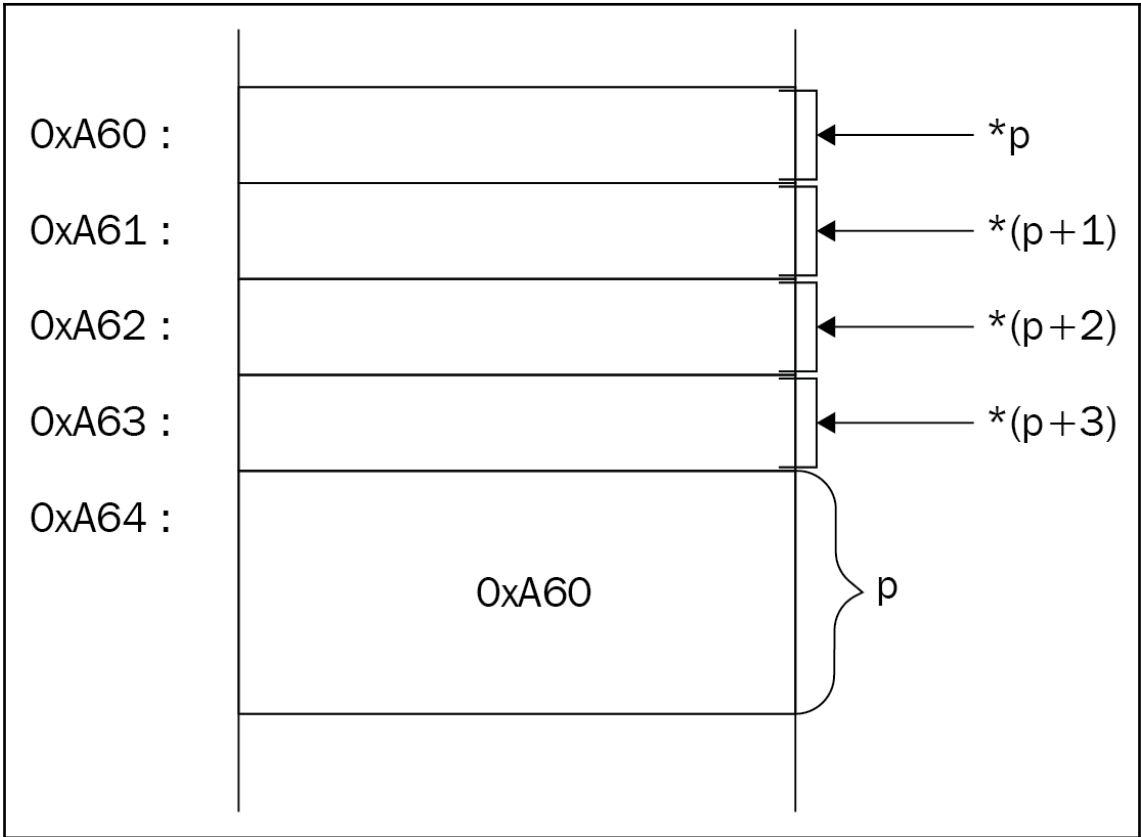


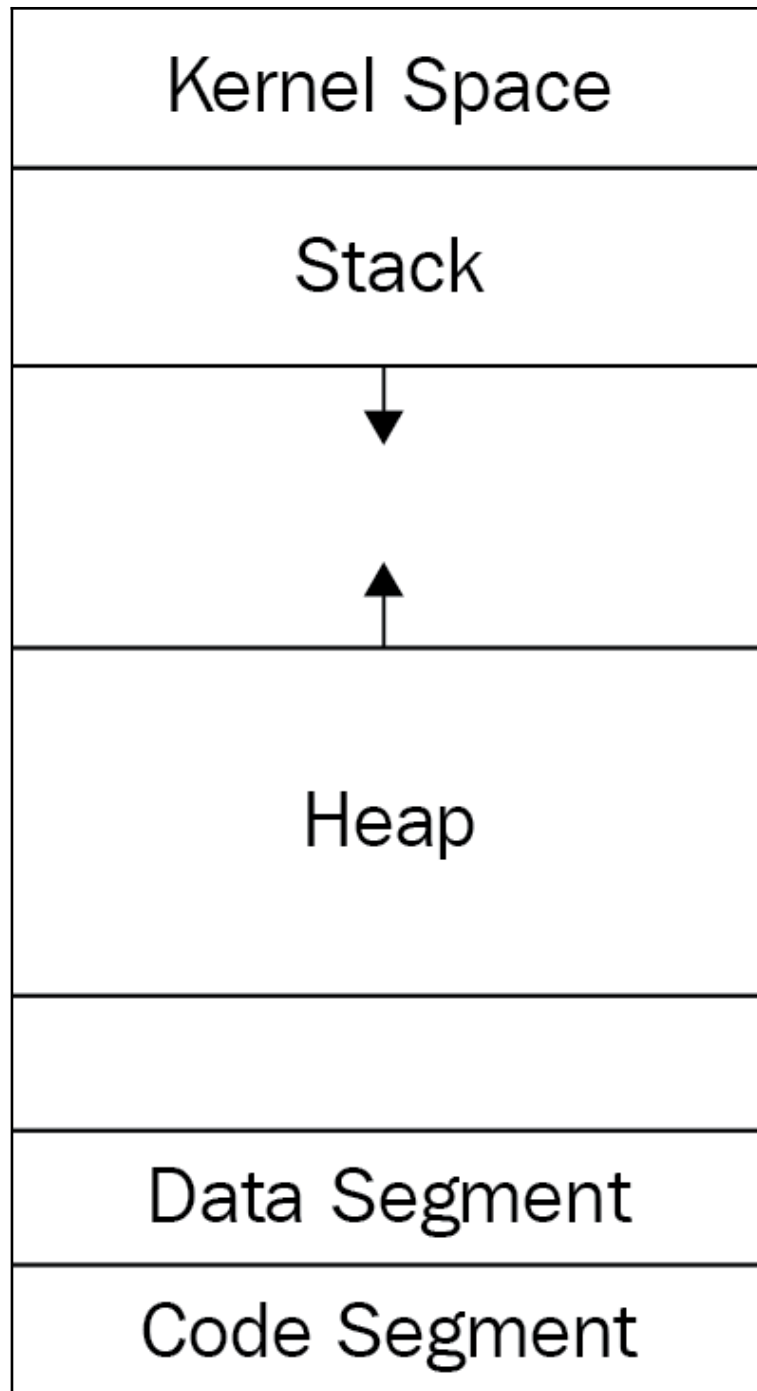


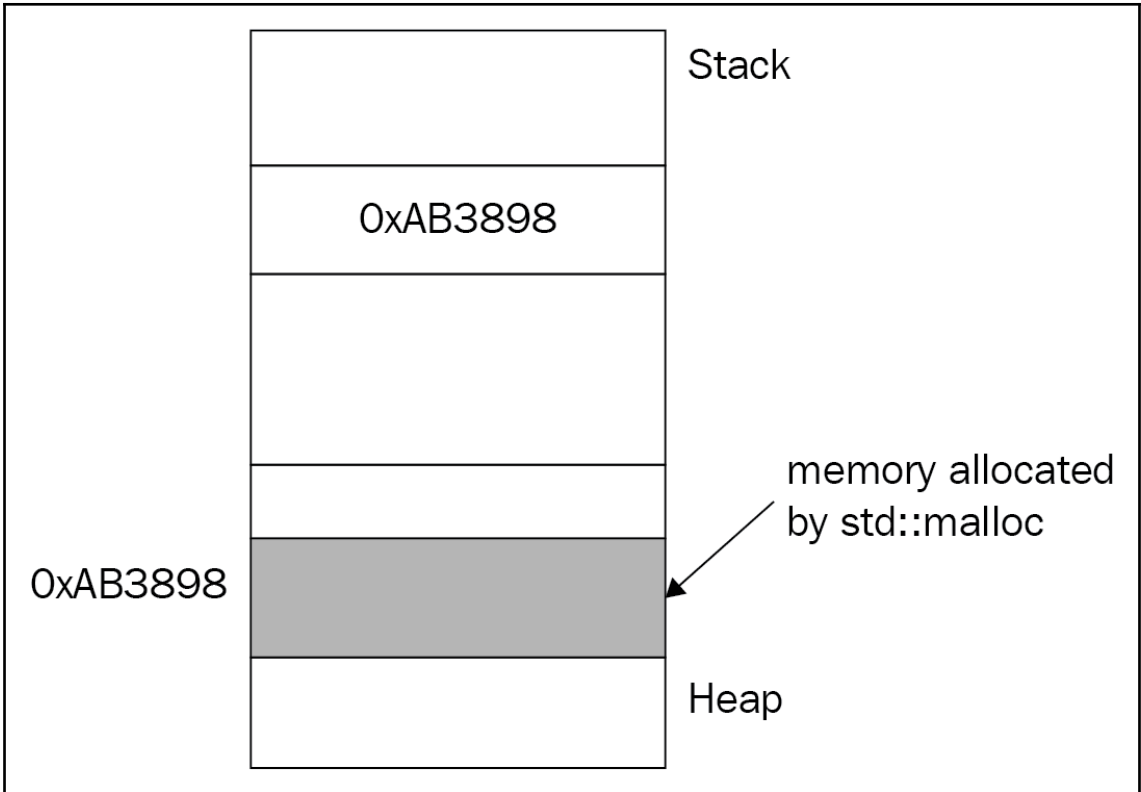
number of bits	number of values	values
1 bit	2	0, 1
2 bit	4	00, 01, 10, 11
3 bit	8	000, 001, 010, 100,
4 bit	16	0000, 0001, 0010,
.....

⋮	⋮	
⋮	⋮	
⋮	⋮	
0xCA7200	0	} ivar
0xCA7201	0	
0xCA7202	0	
0xCA7203	26	} ch
0xCA7204	't'	
0xCA7205	0	} d
0xCA7206	0	
0xCA7207	0	
0xCA7208	0	
0xCA7209	0	
0xCA720A	0	
0xCA720B	0	
0xCA720C	3.14	
⋮		
⋮		
⋮		

▪	▪	
▪	▪	
▪	▪	
0xCA7200	26	ivar
▪		
▪		
0xCA7204	' t '	ch
0xCA7205		
▪	3.14	d
▪		
▪		
0xCA720D	0xCA7200	ptr
▪		
▪		
▪		
0xCA7215	0xCA7204	pch
▪		
▪		
▪		
0xCA7210	0xCA7205	pd
	▪	
	▪	
	▪	

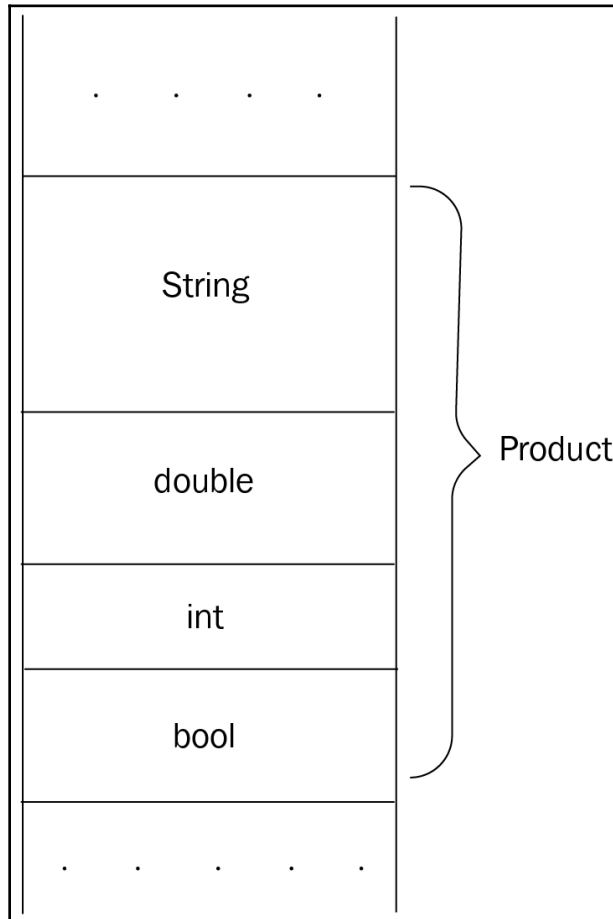


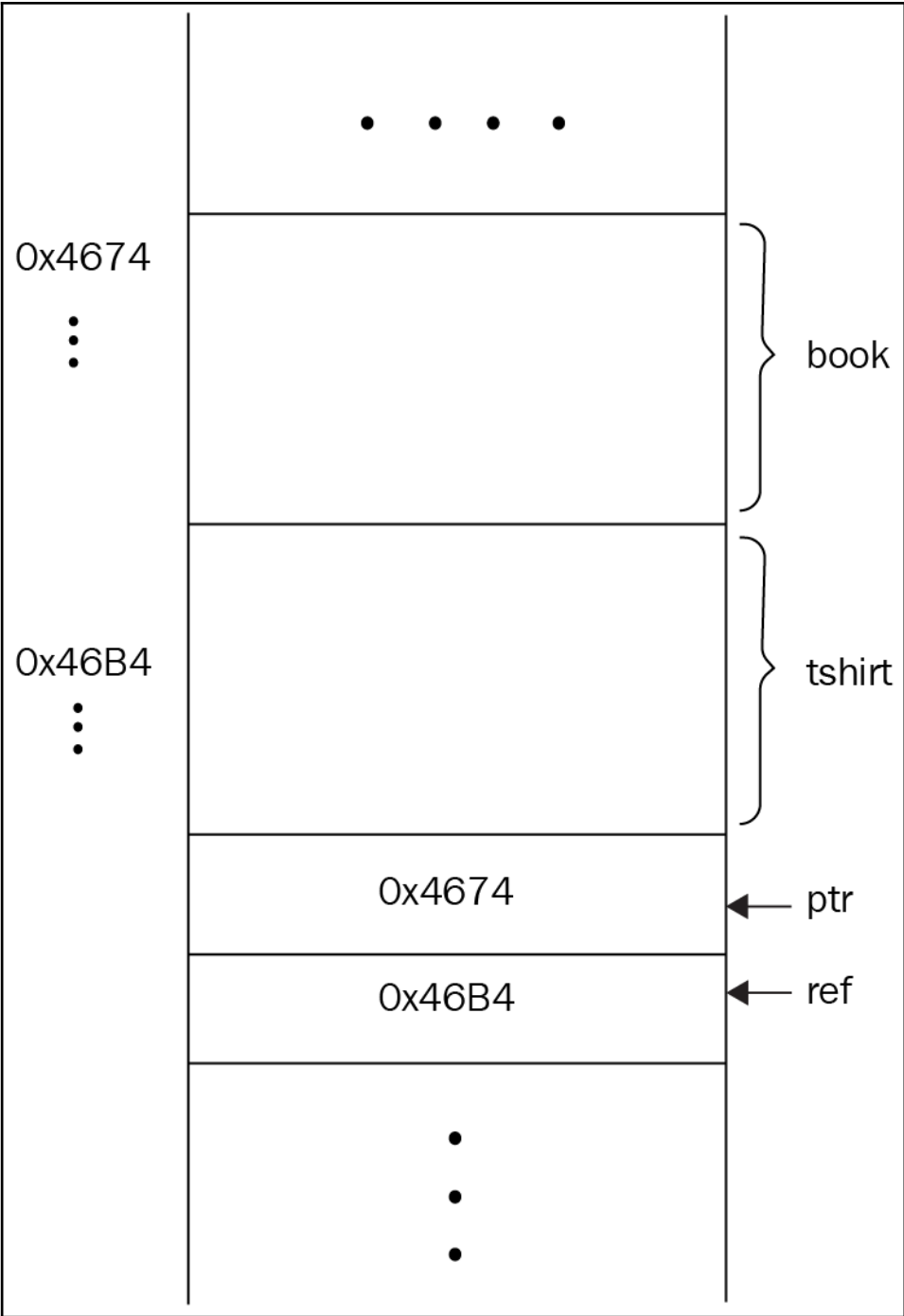




		<code>int arr[]={27, 94, 66, 87, 43};</code>
<code>0x5000</code>	27	<code>arr[0]</code>
<code>0x5004</code>	94	<code>arr[1]</code>
<code>0x5008</code>	66	<code>arr[2]</code>
<code>0x500C</code>	87	<code>arr[3]</code>
<code>0x5010</code>	43	<code>arr[4]</code>
<code>0x5014</code>		

Chapter 3: Details of Object-Oriented Programming





Product for website
visitors

name

price

rating

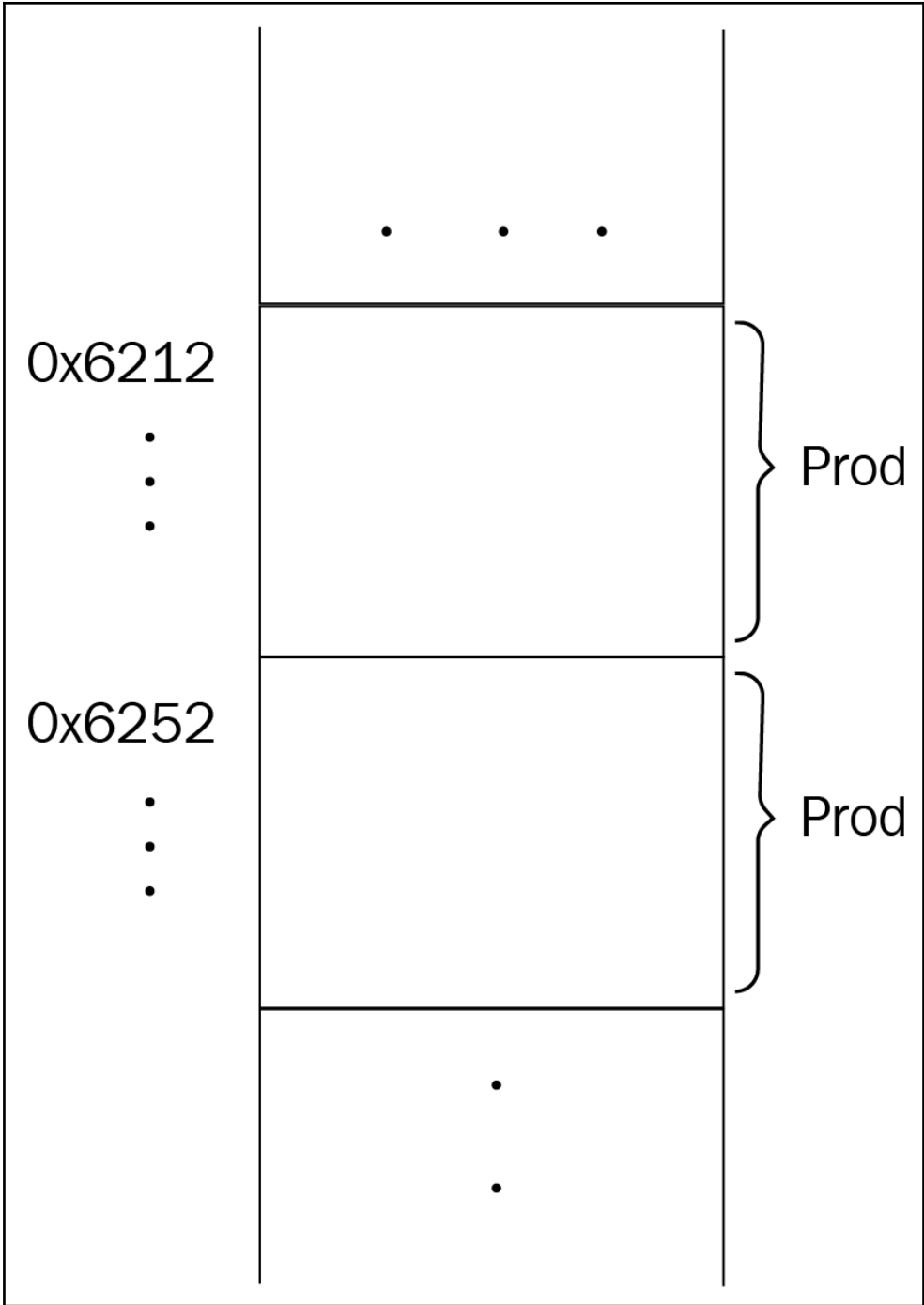
available

Product for warehouse
managers

weight

dimensions

conditions

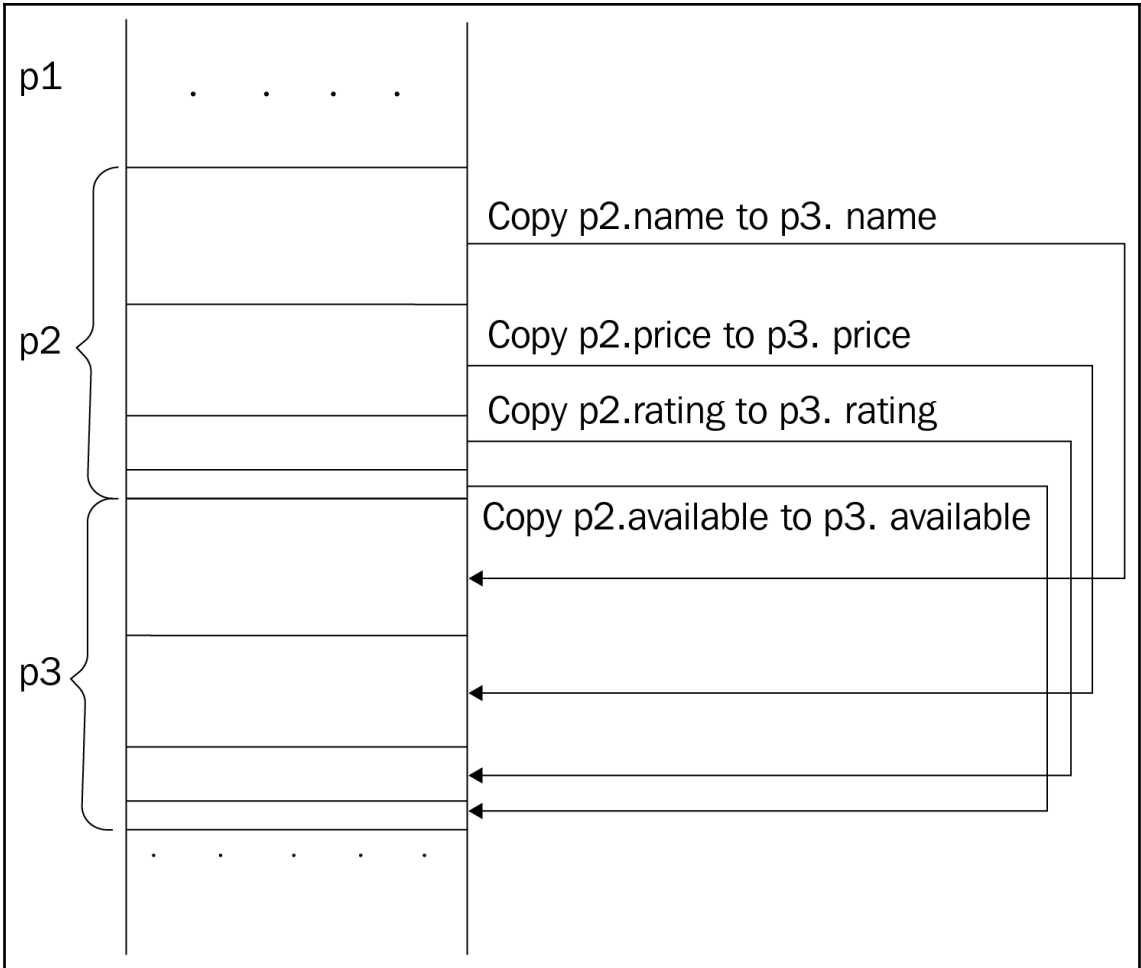


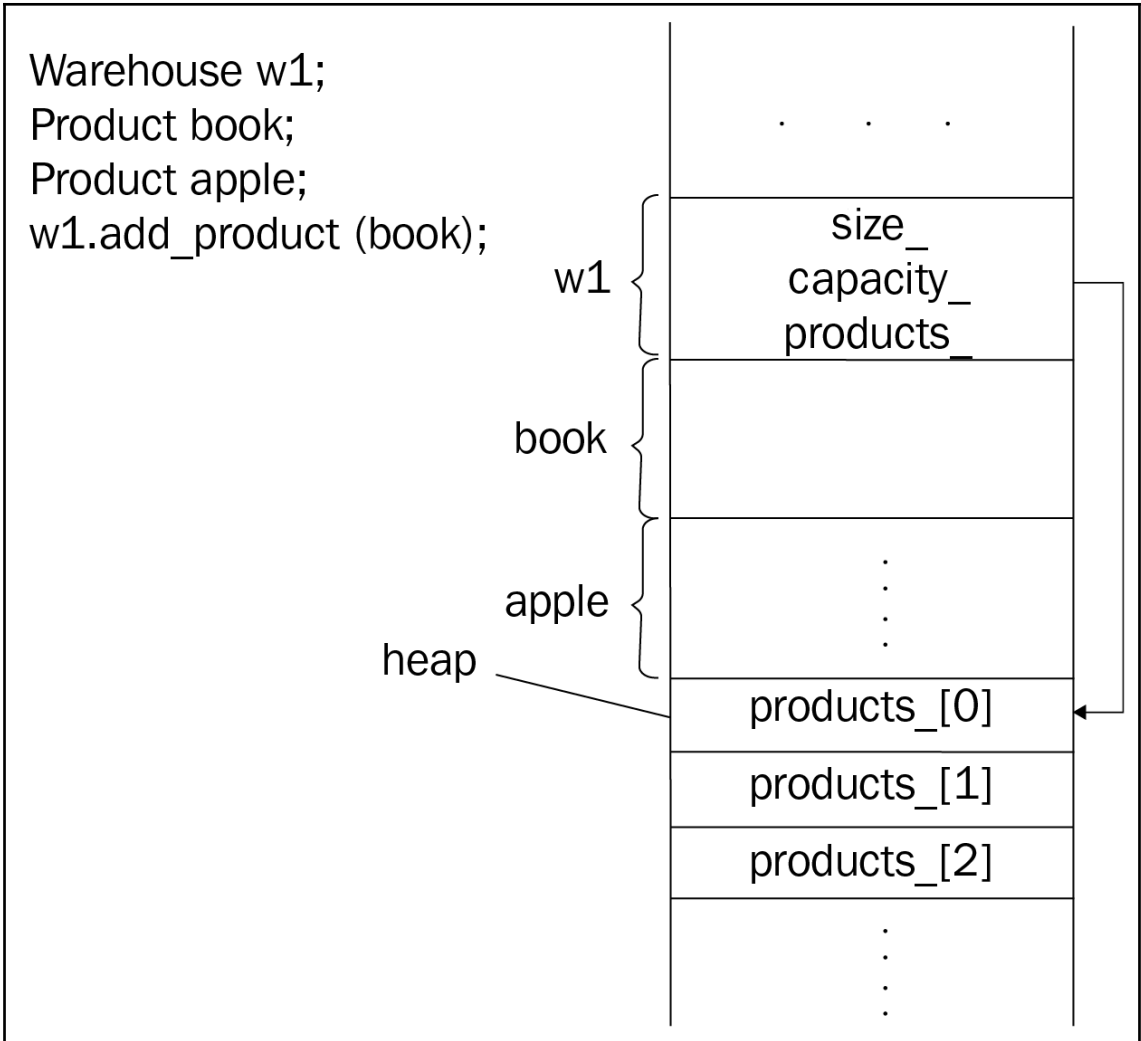
Product

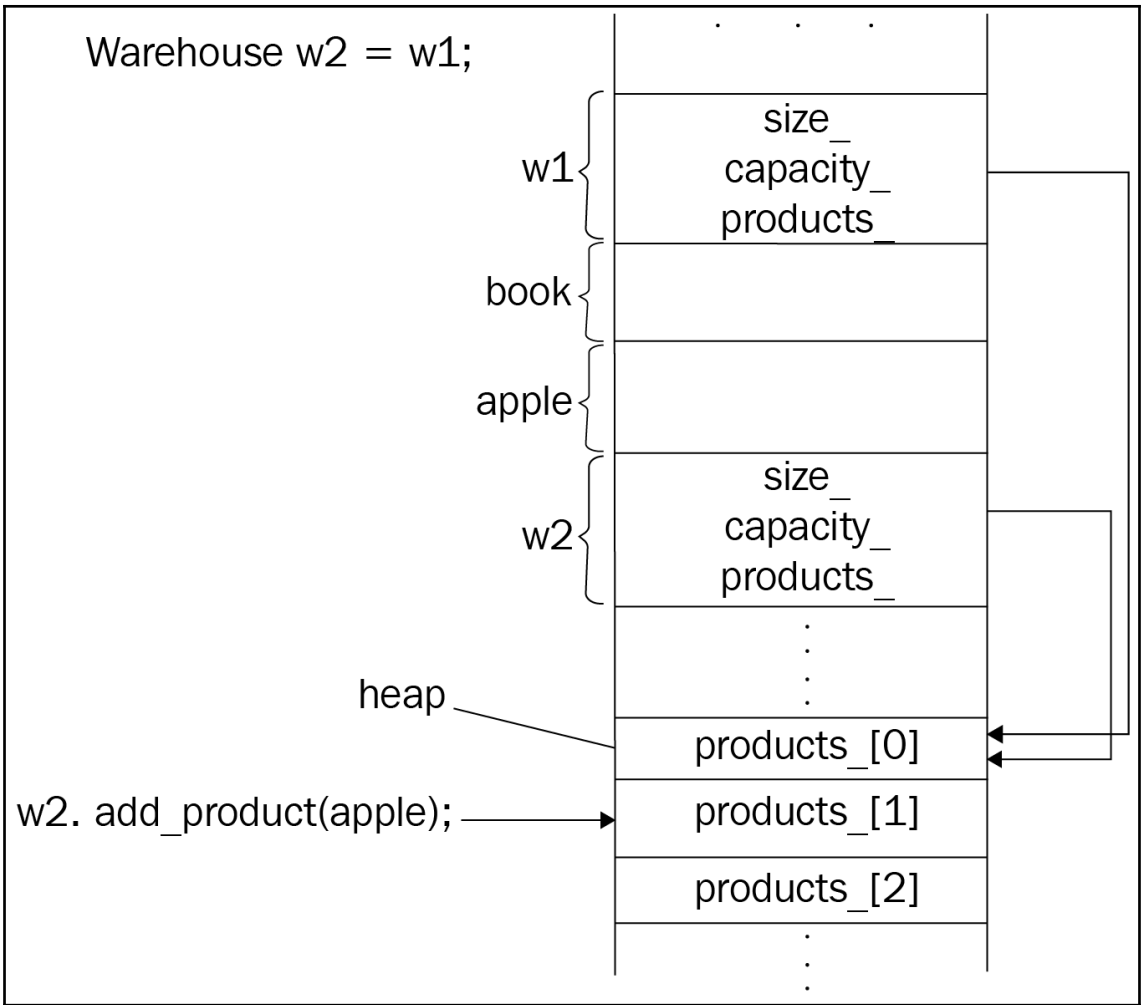
name_ : std::string
available_ : bool
price_ : double
rating_ : int

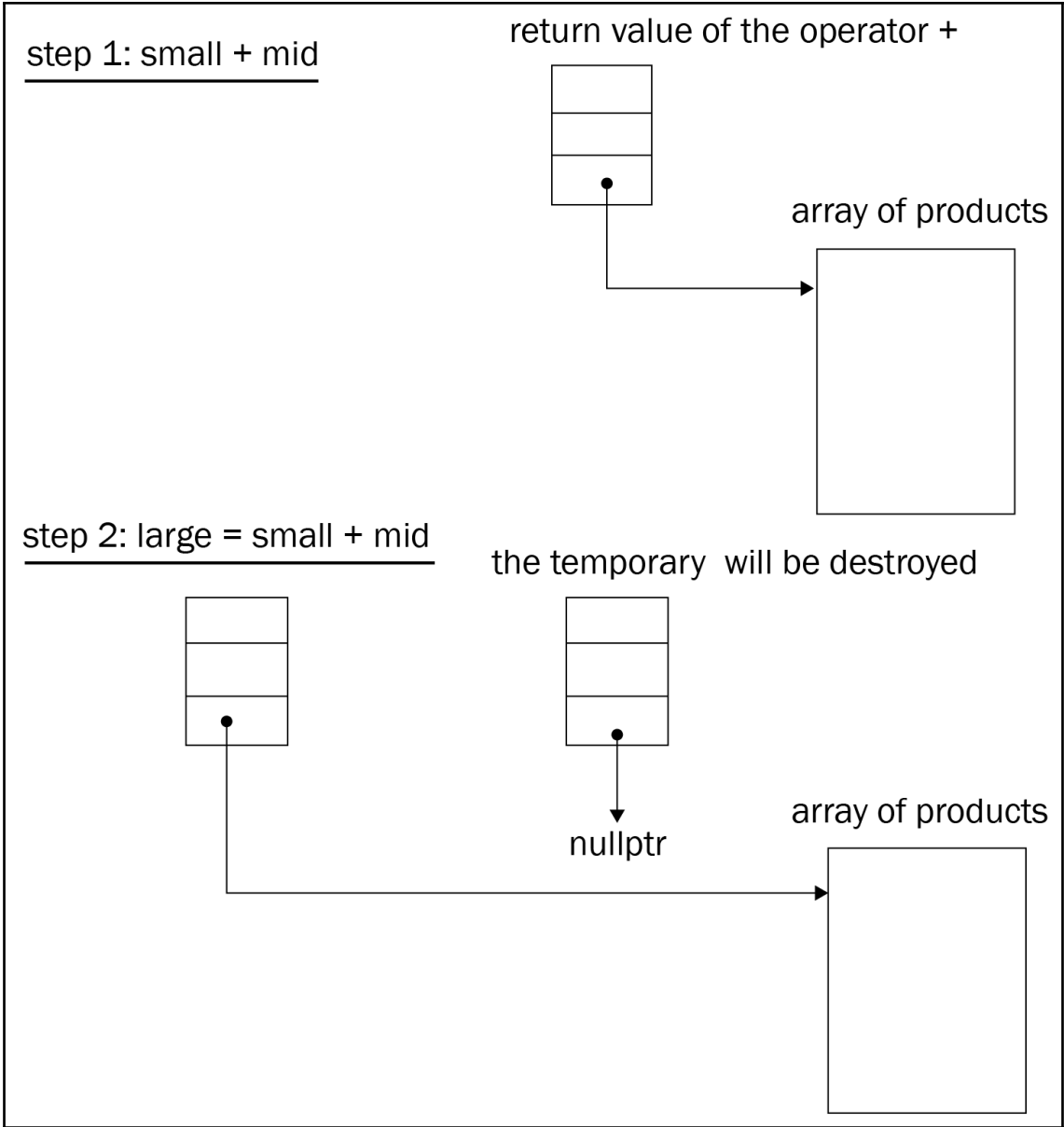
+set_name(const std::string&):void
+name(): std::string
+available(): bool
+set_price(double): void
+price(): double
+set_rating(int): void
+rating(): int

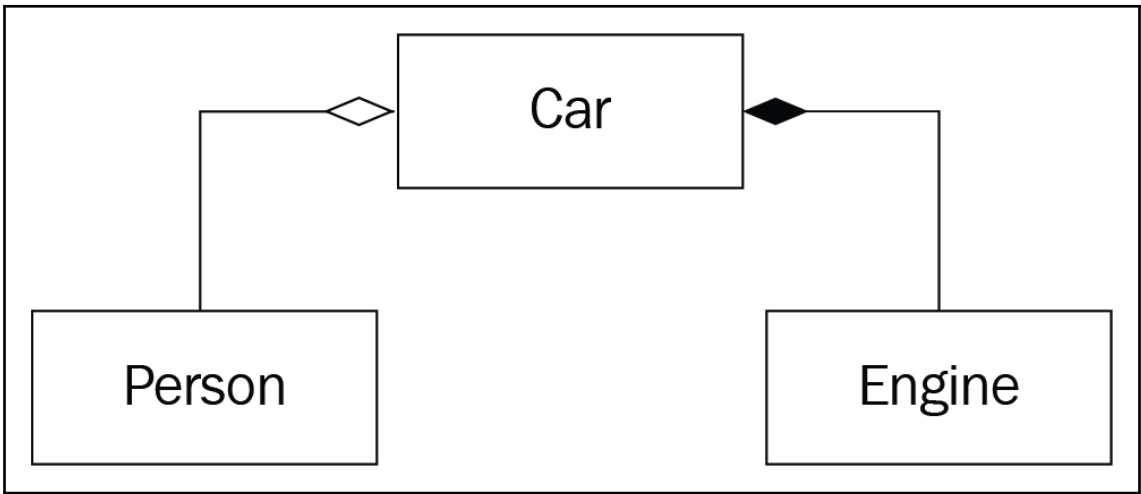
Product







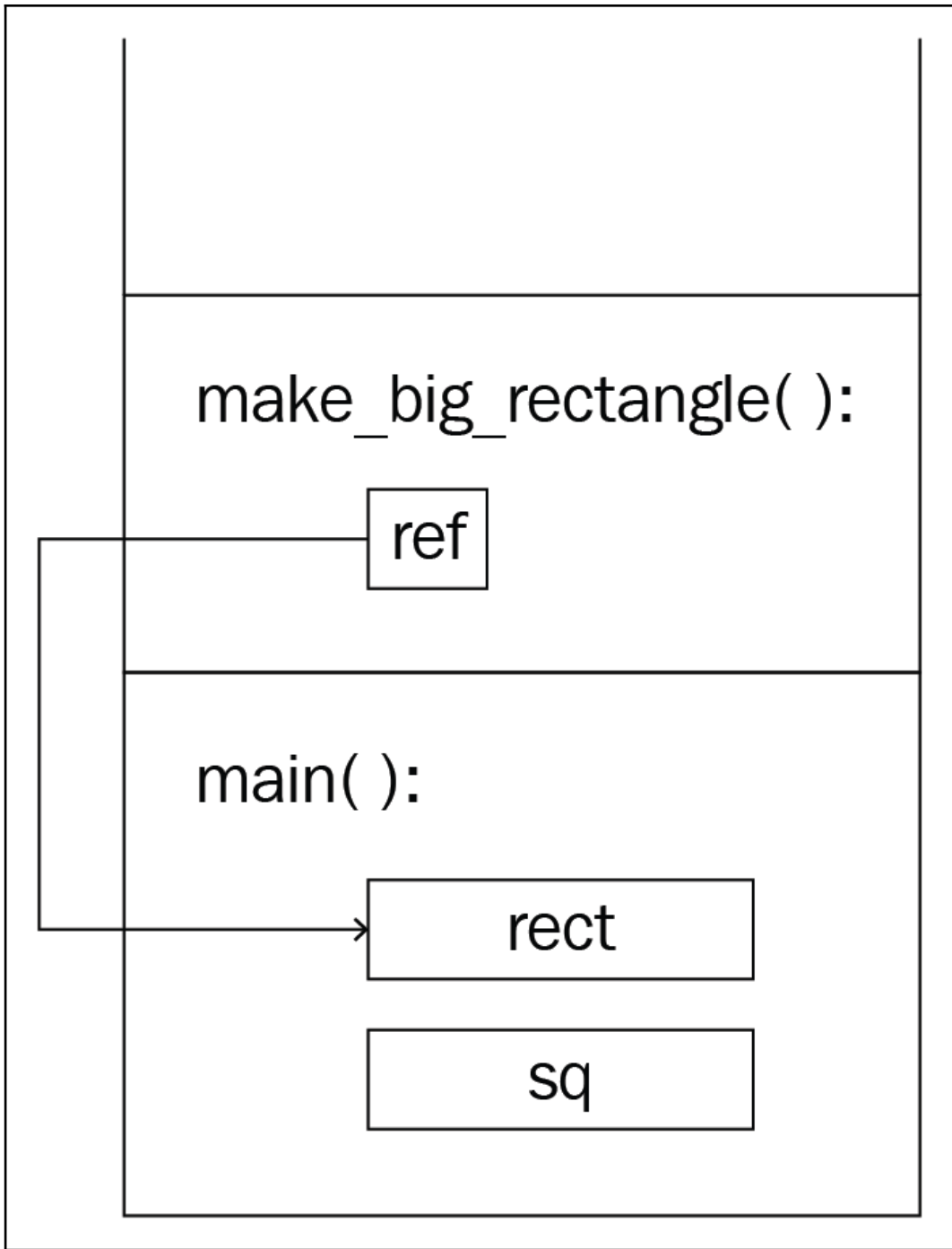


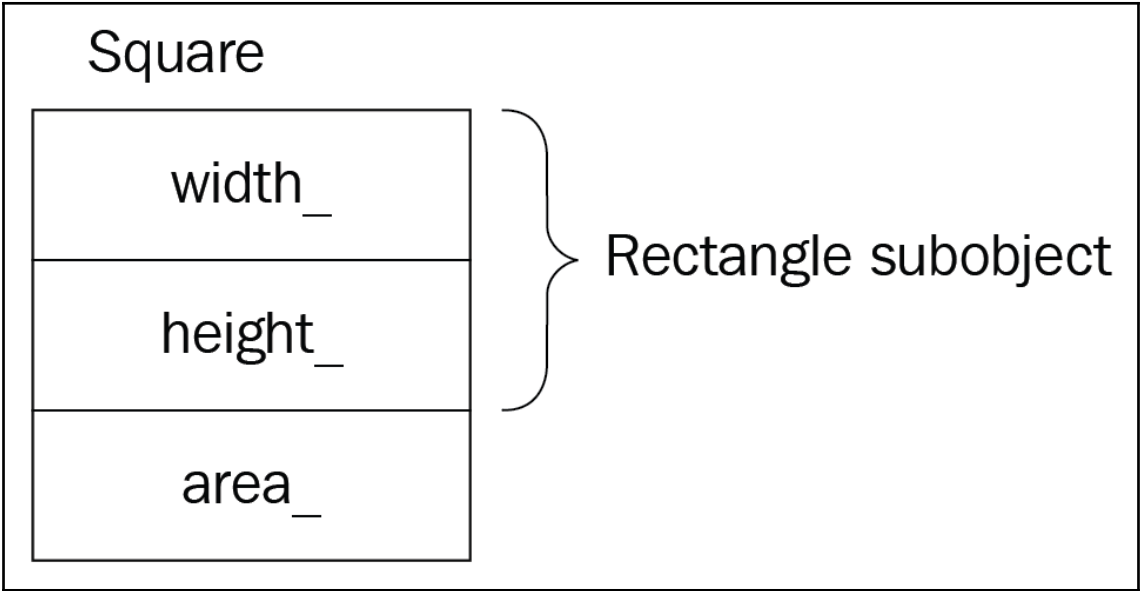


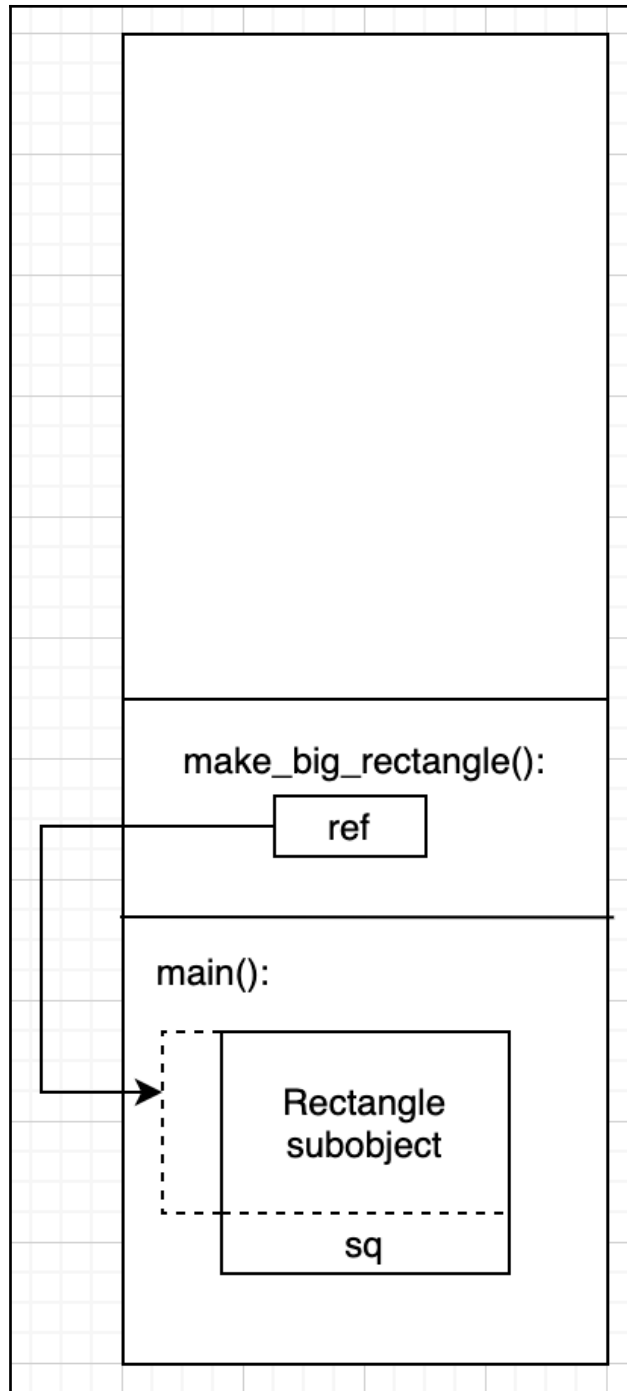
Rectangle

width_

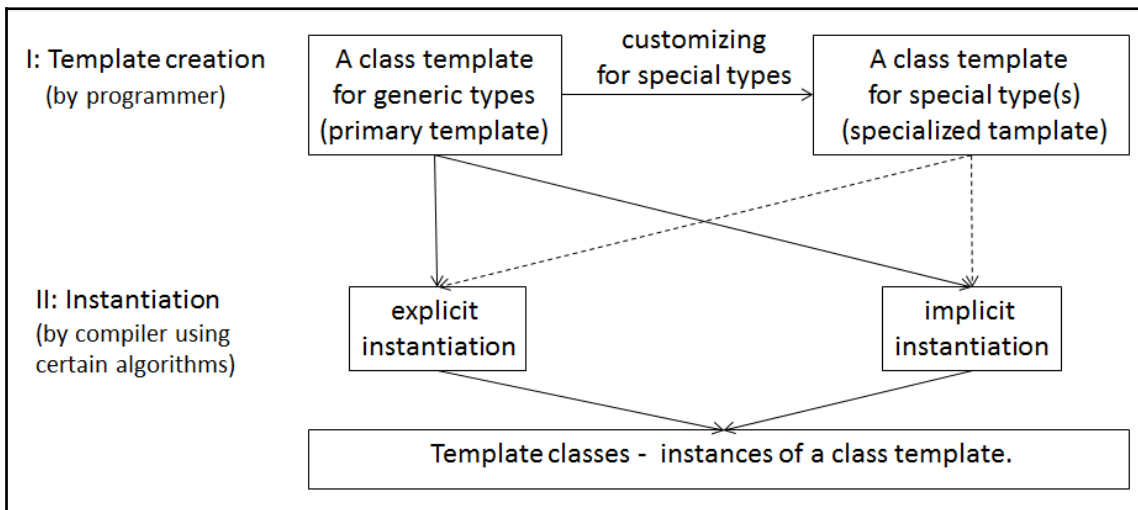
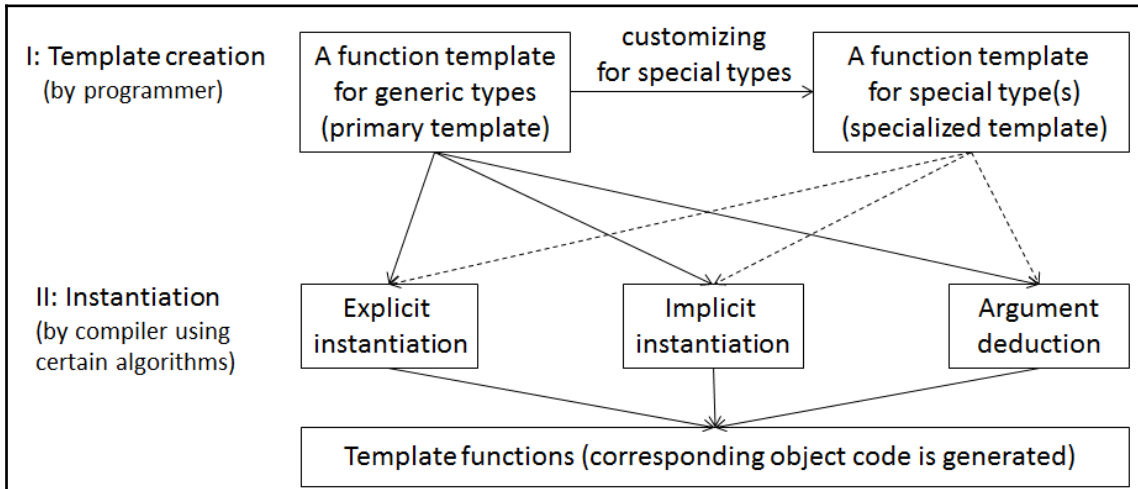
height_



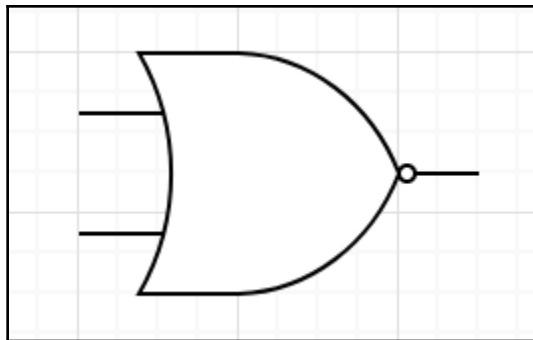
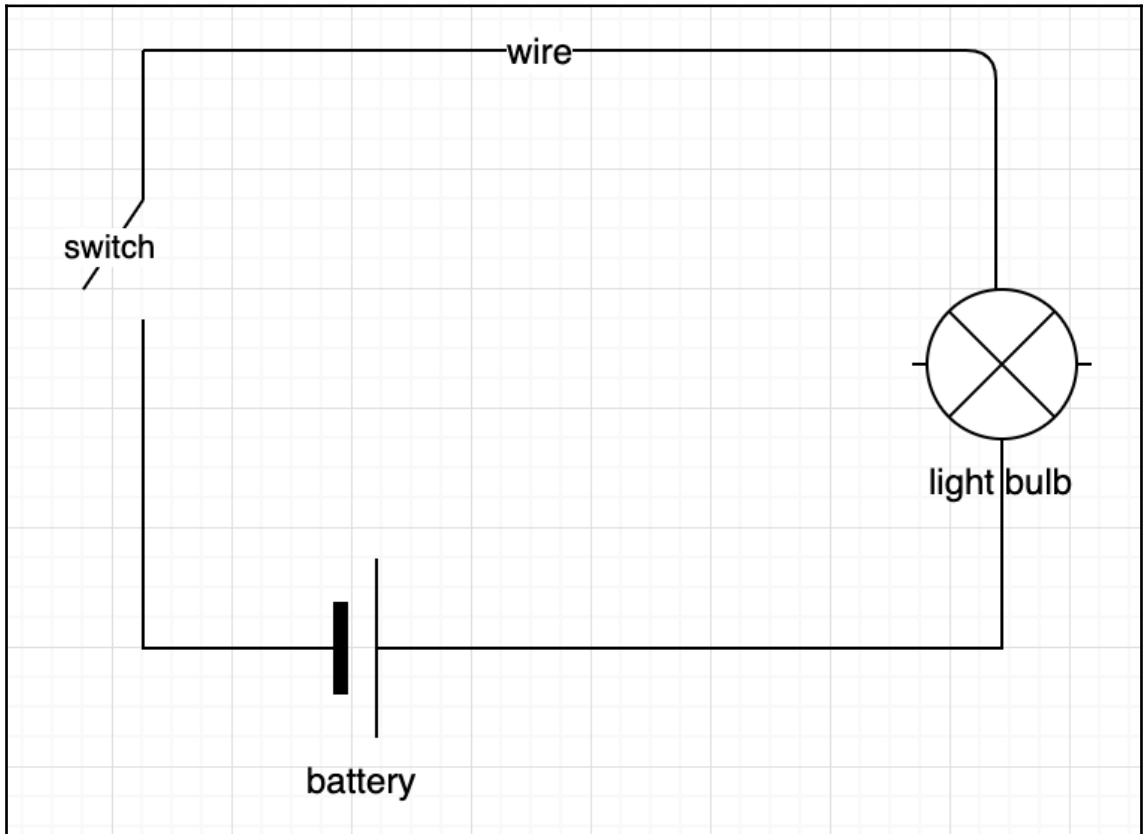


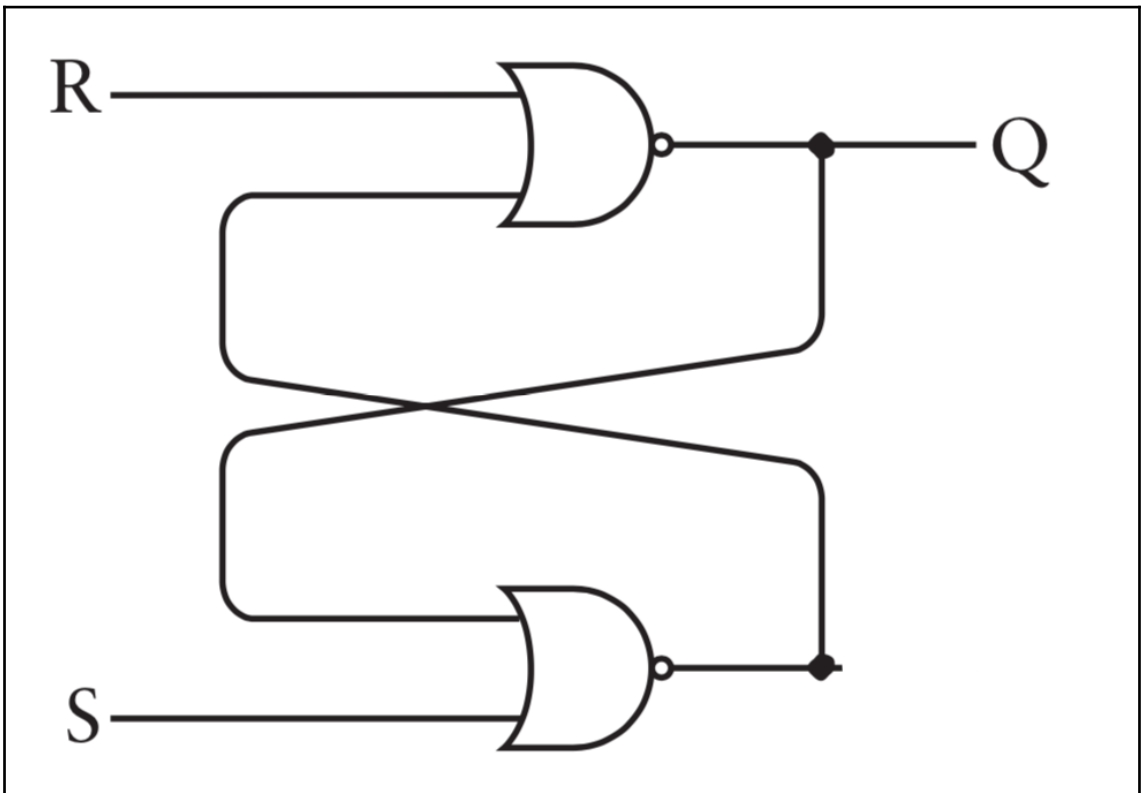
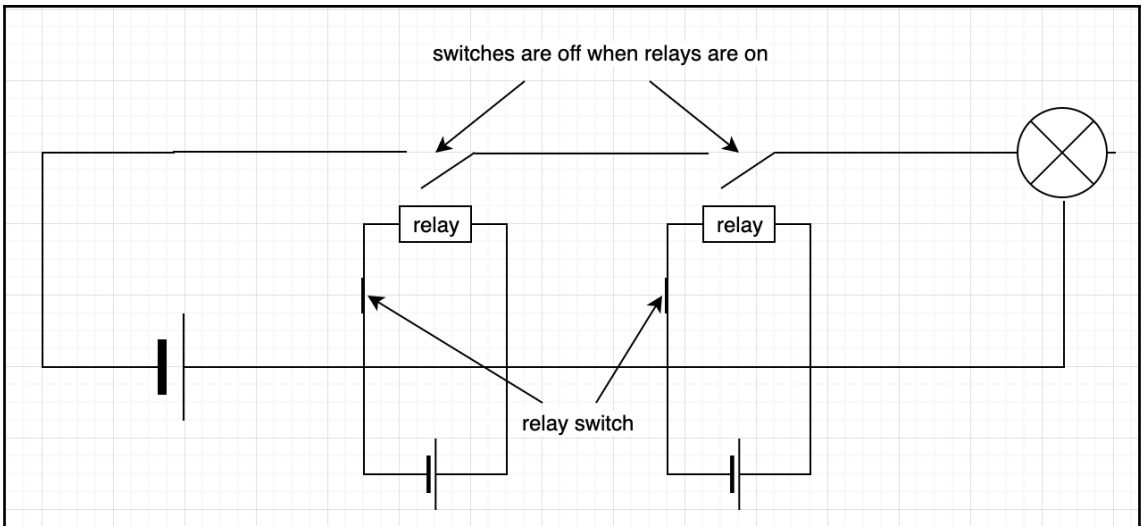


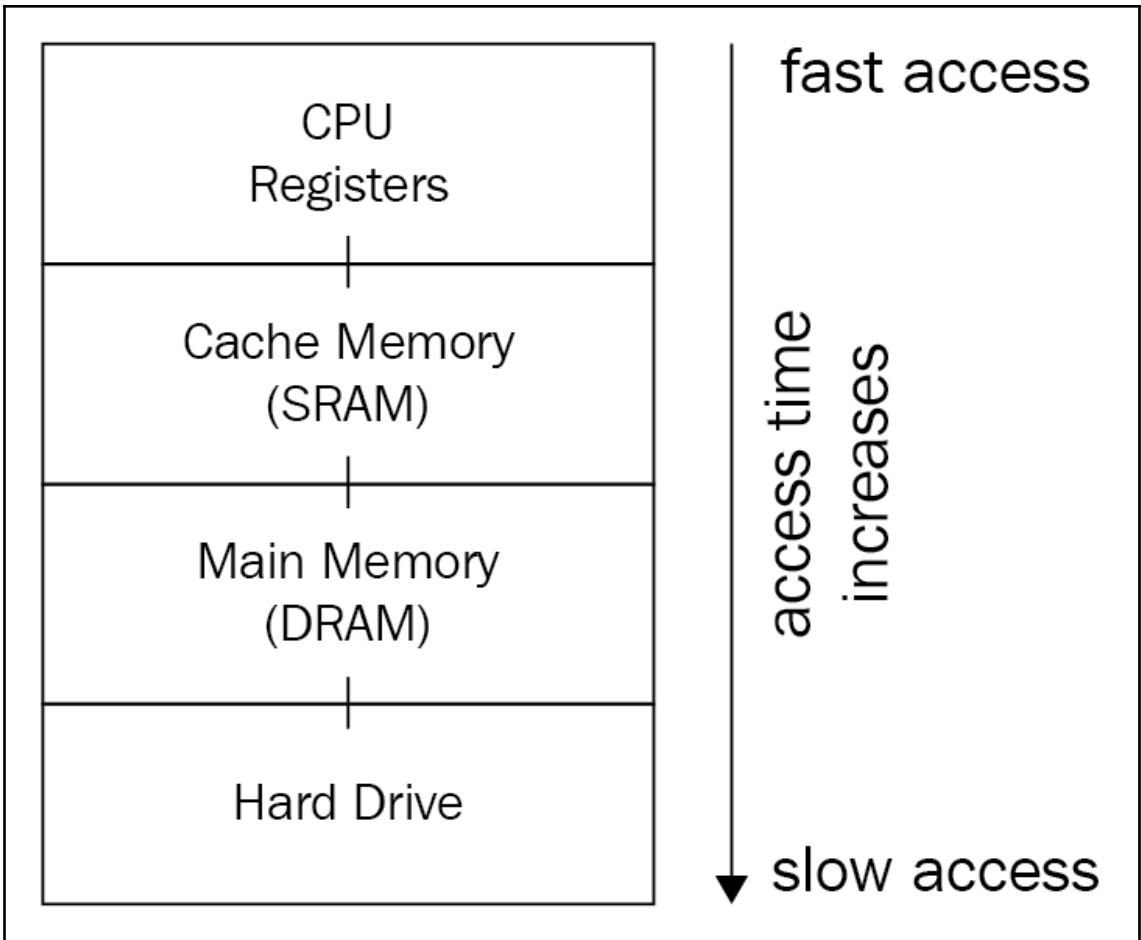
Chapter 4: Understanding and Designing Templates

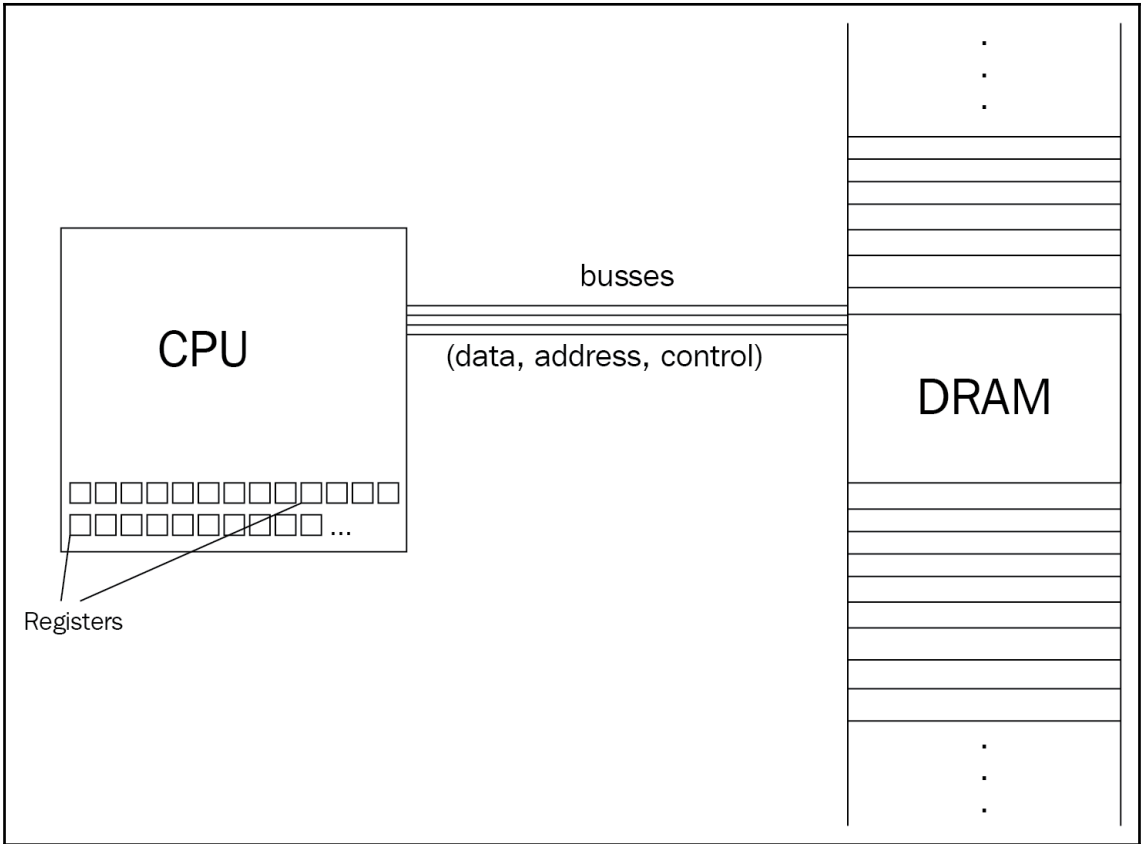


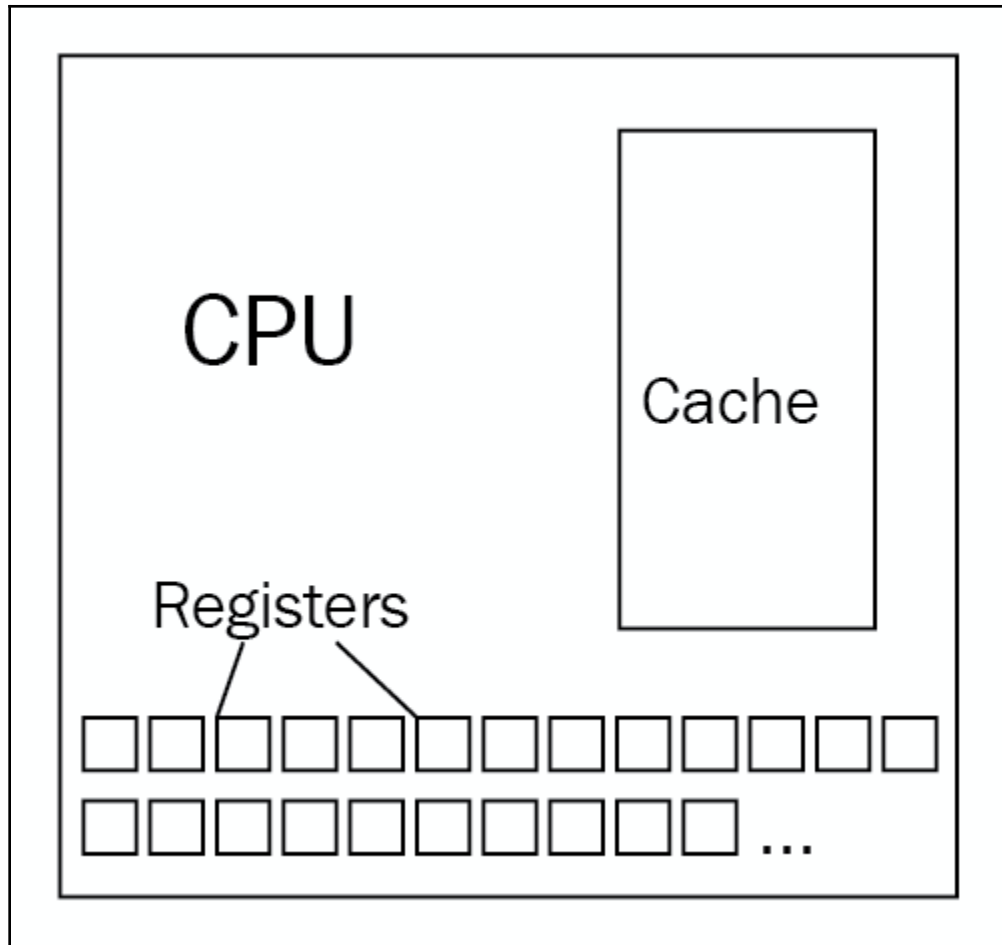
Chapter 5: Memory Management and Smart Pointers

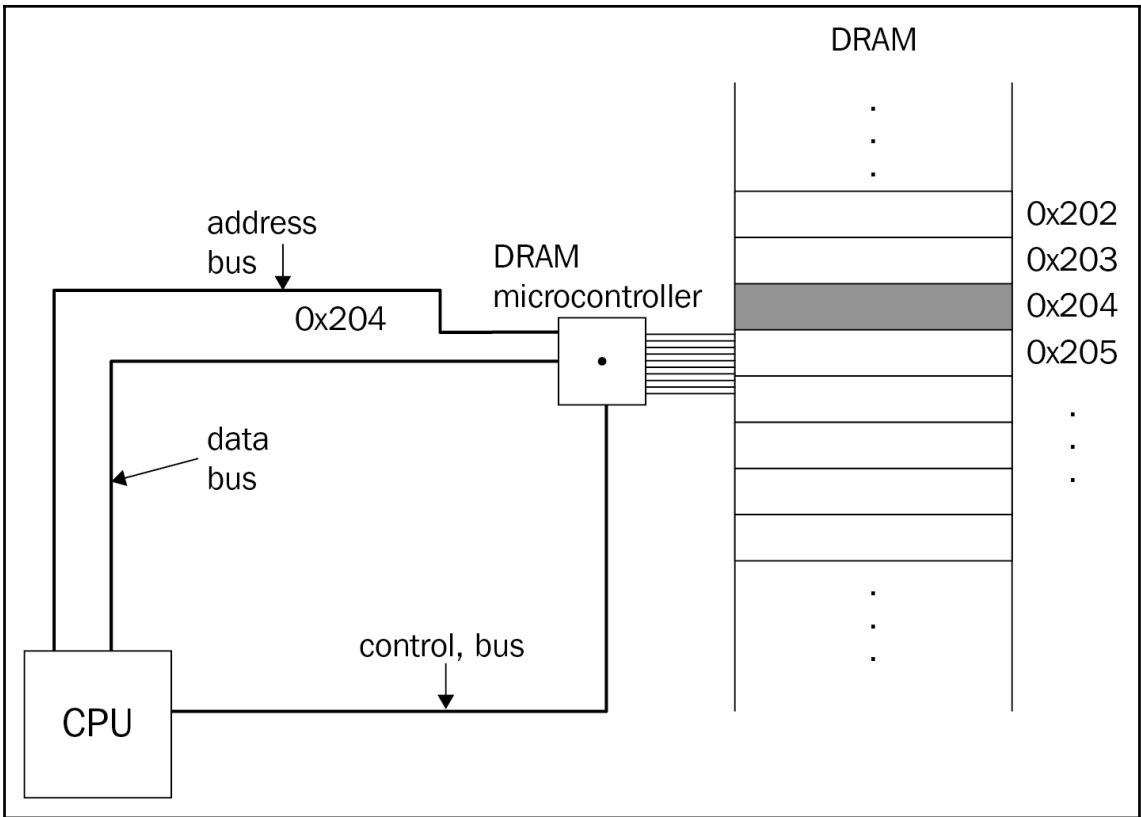


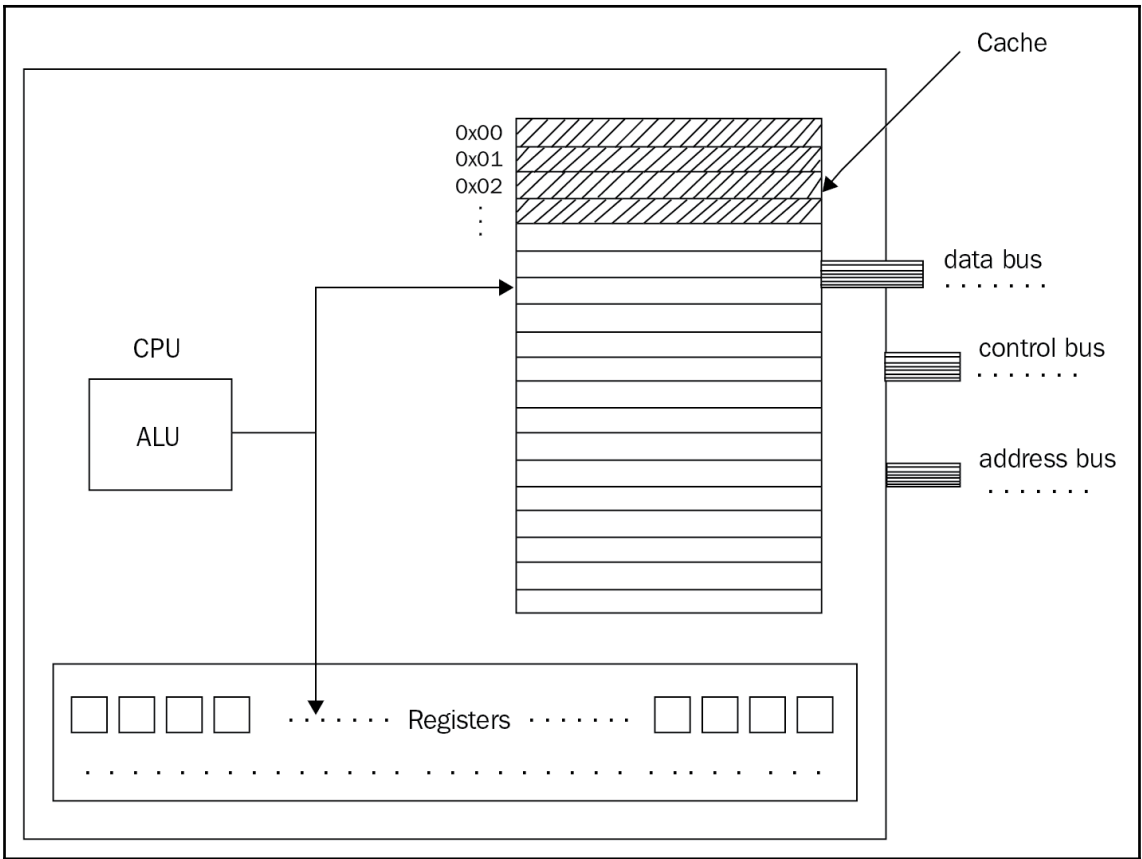


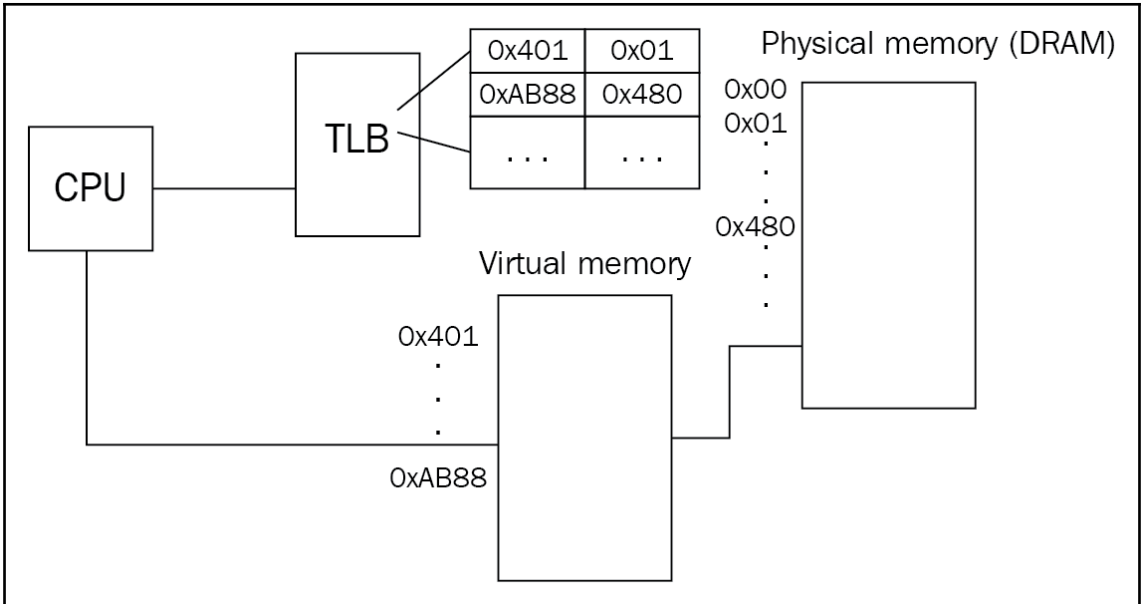


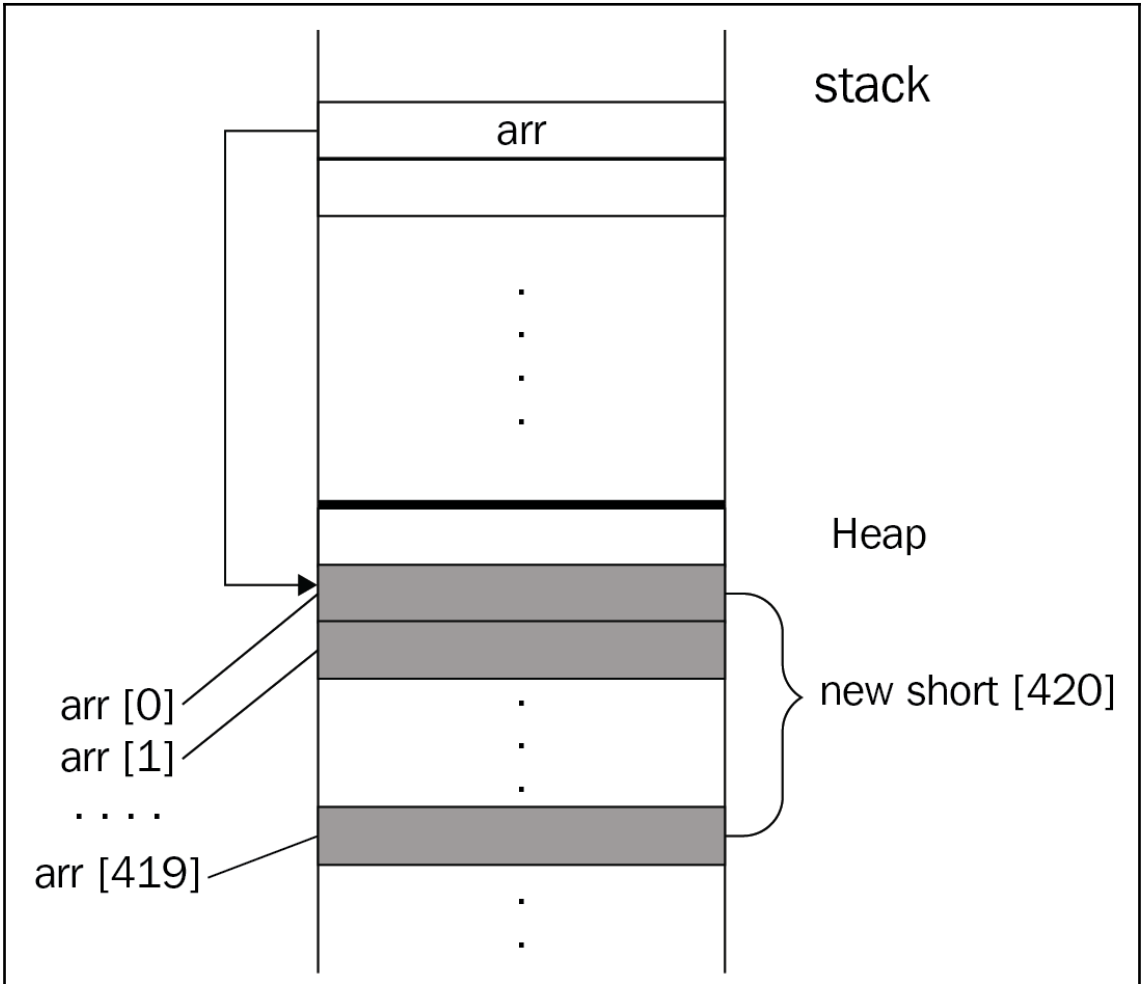


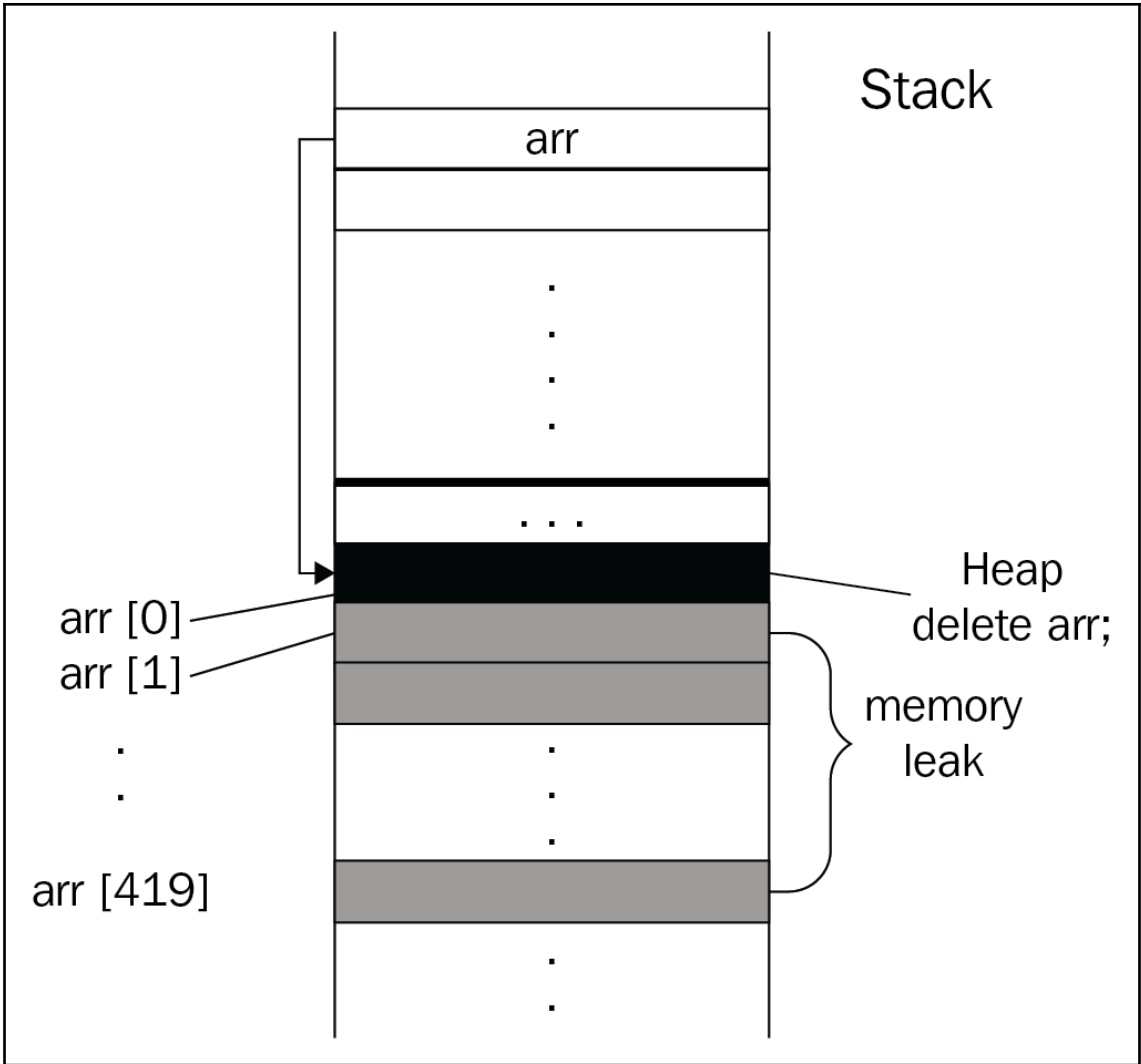


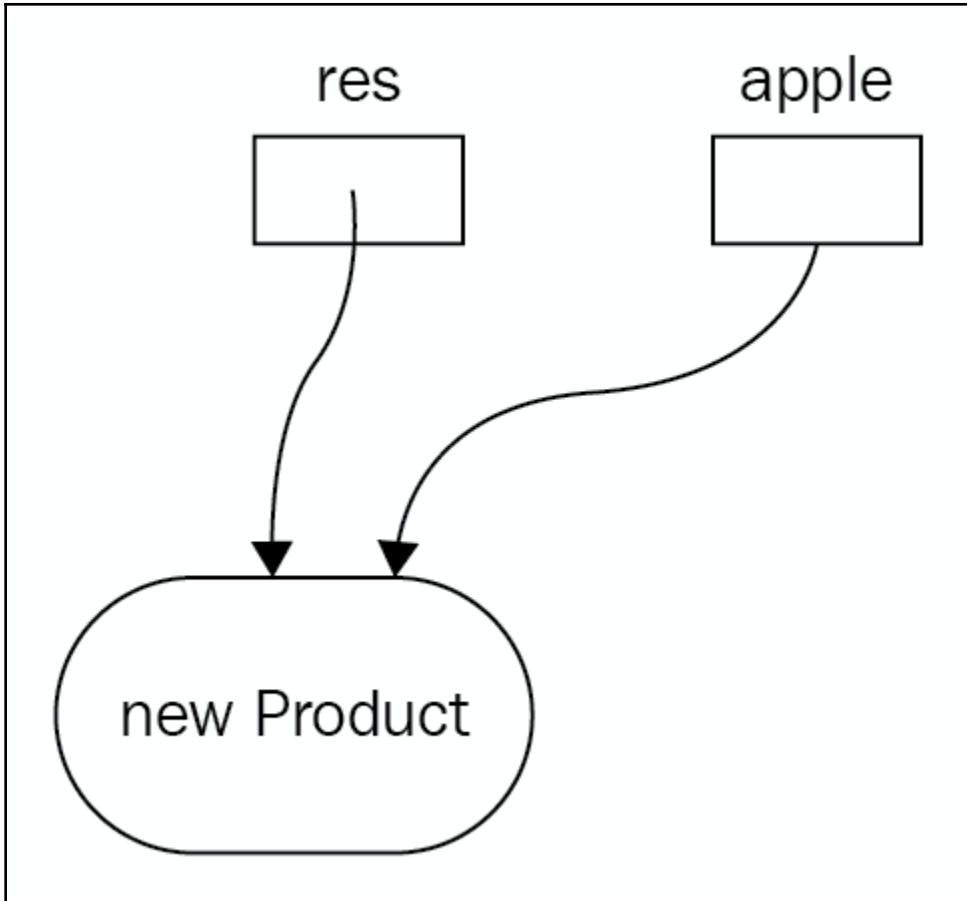


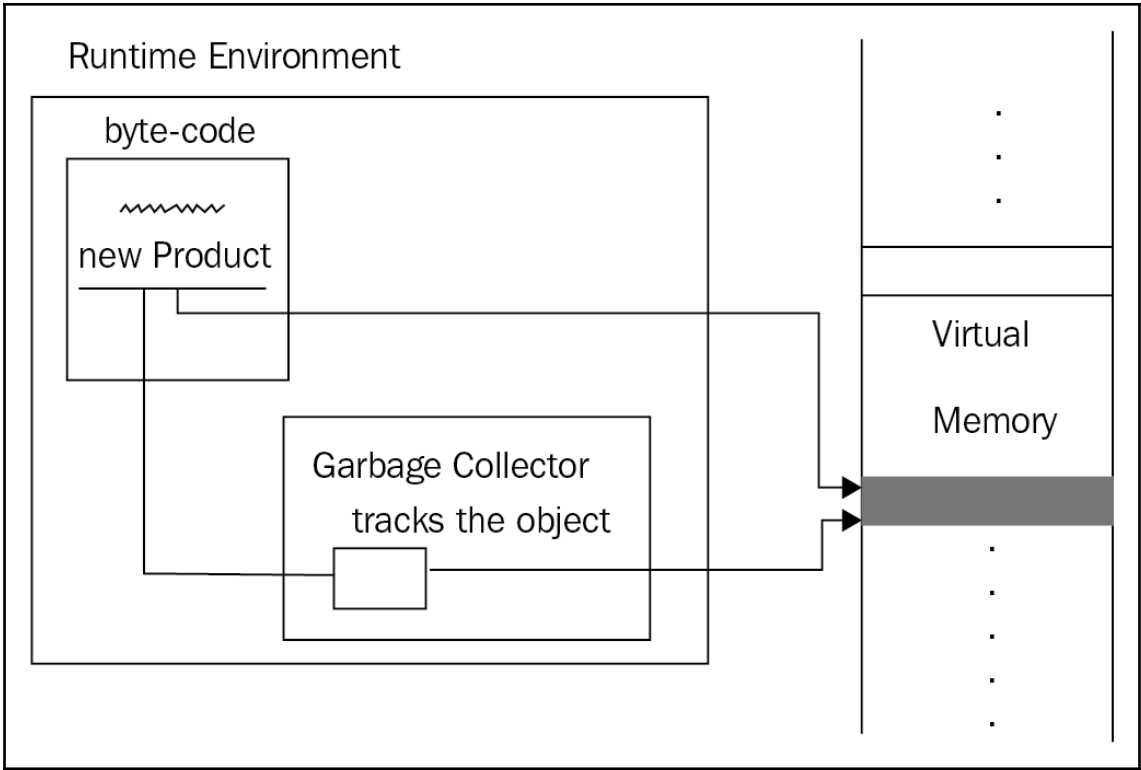


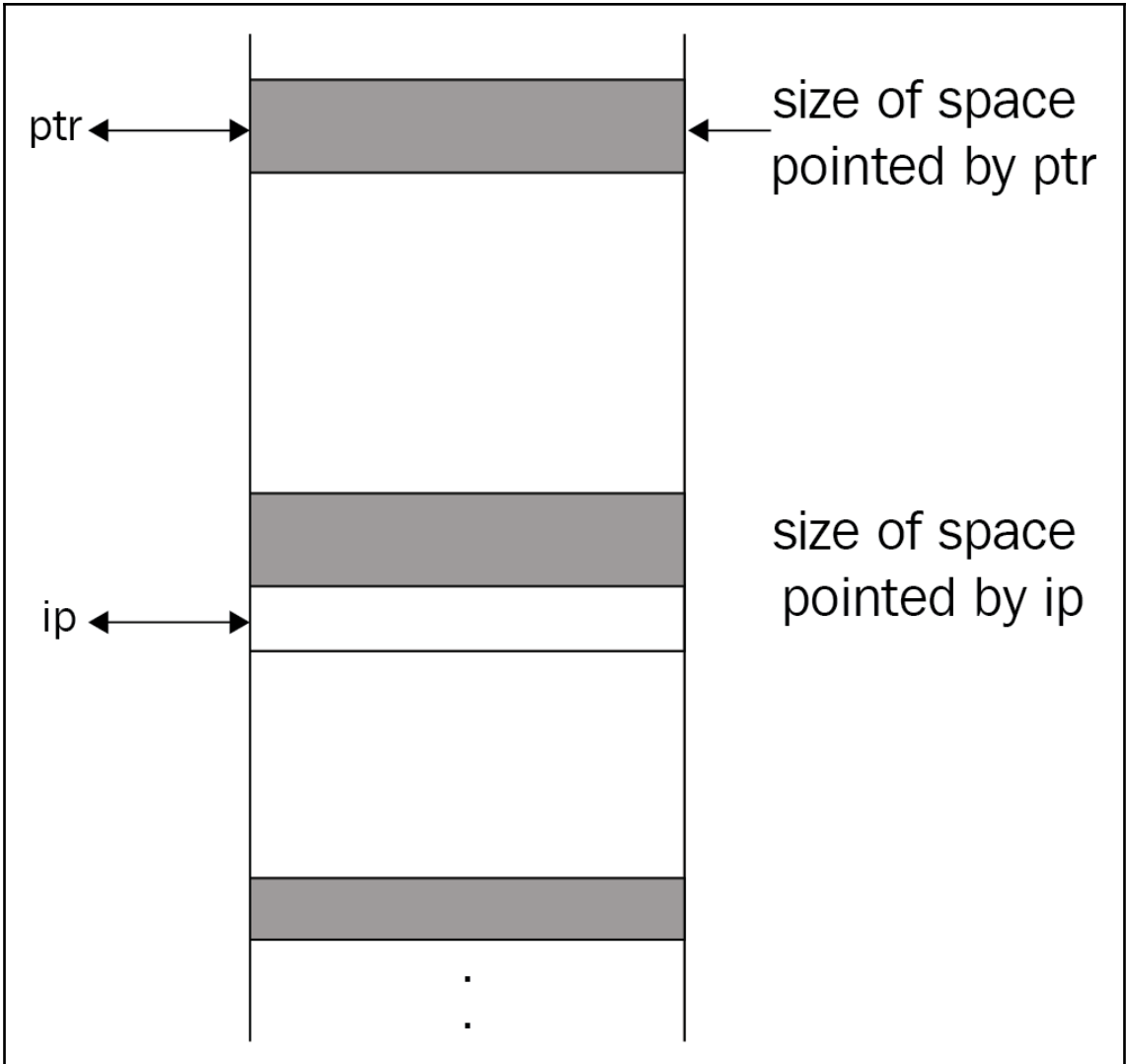




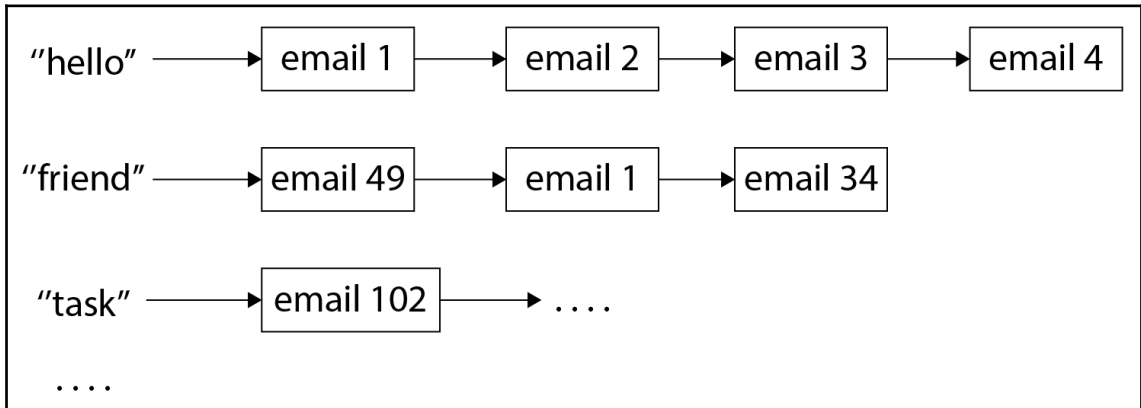


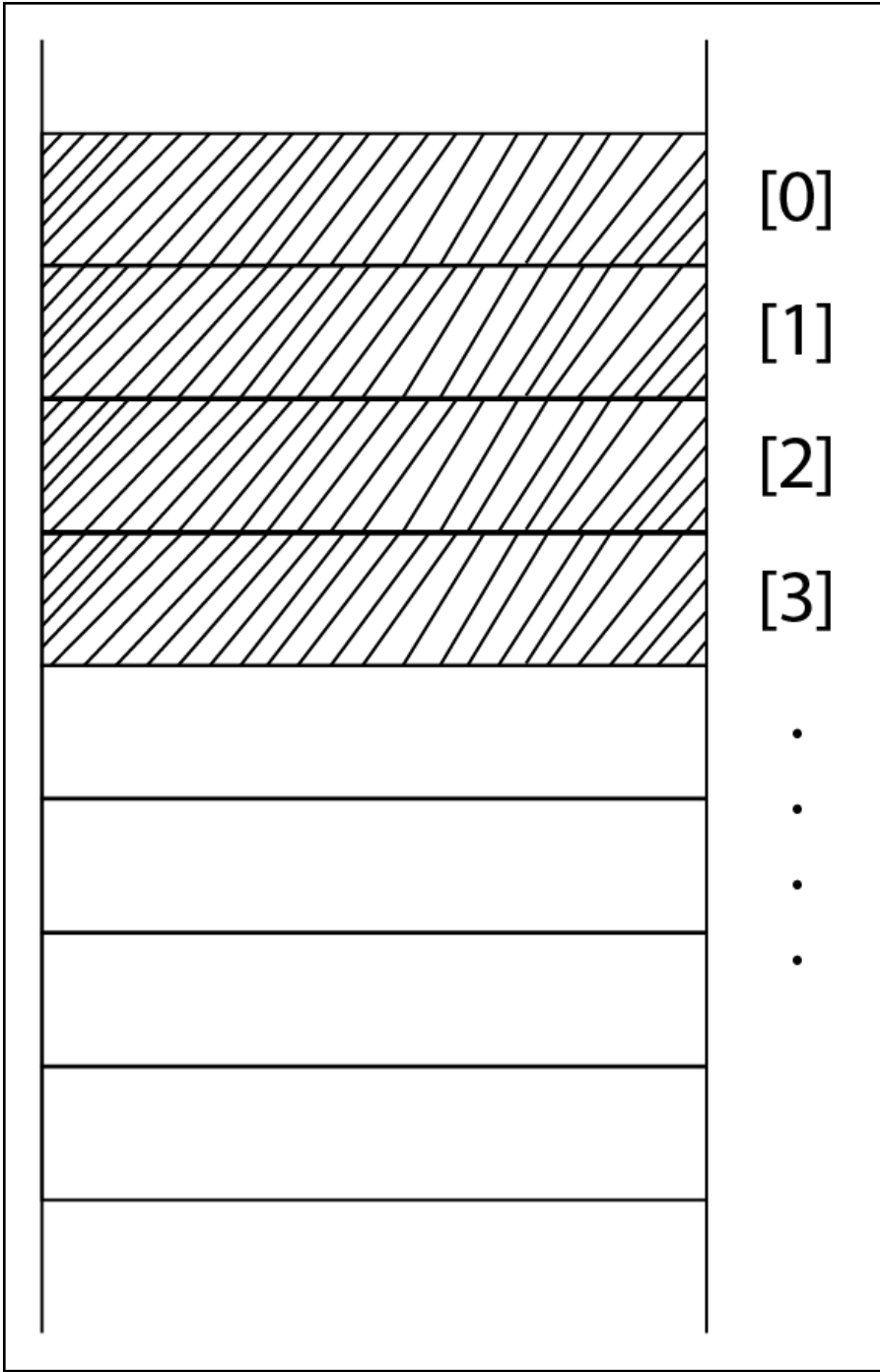


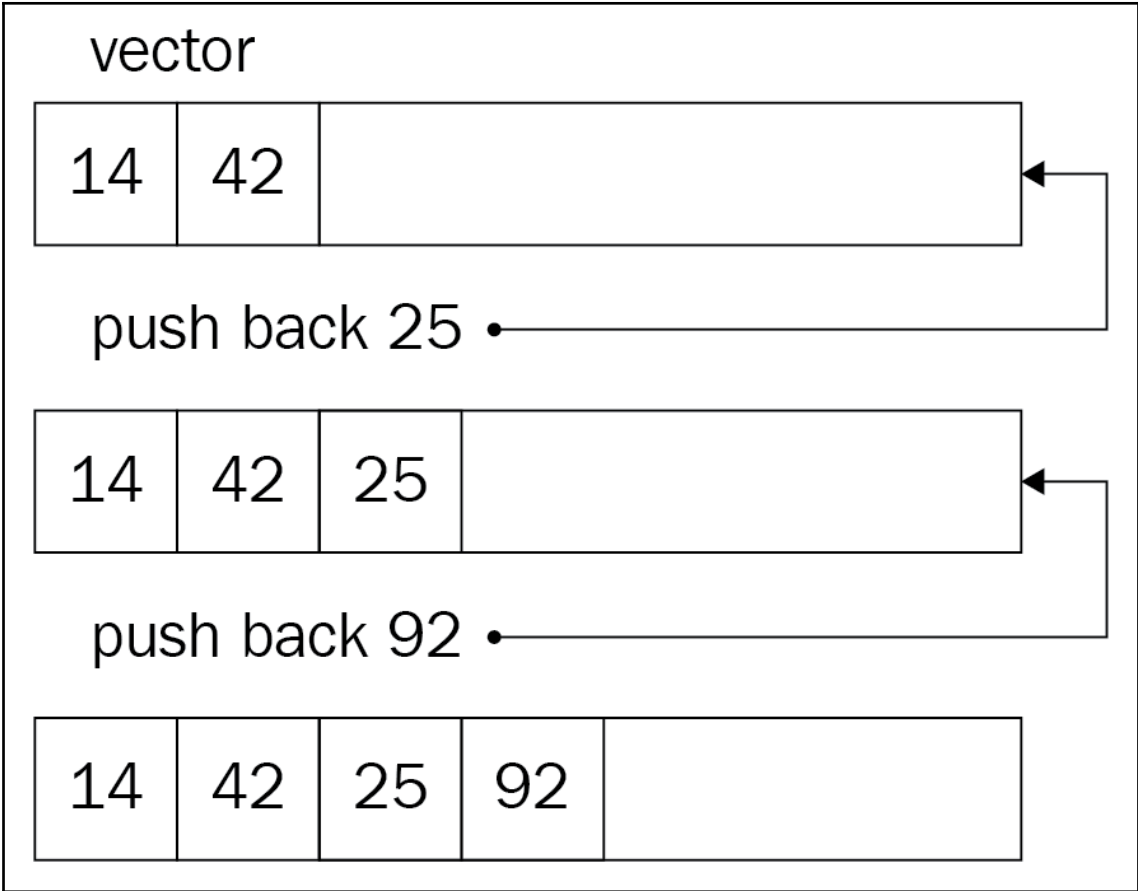


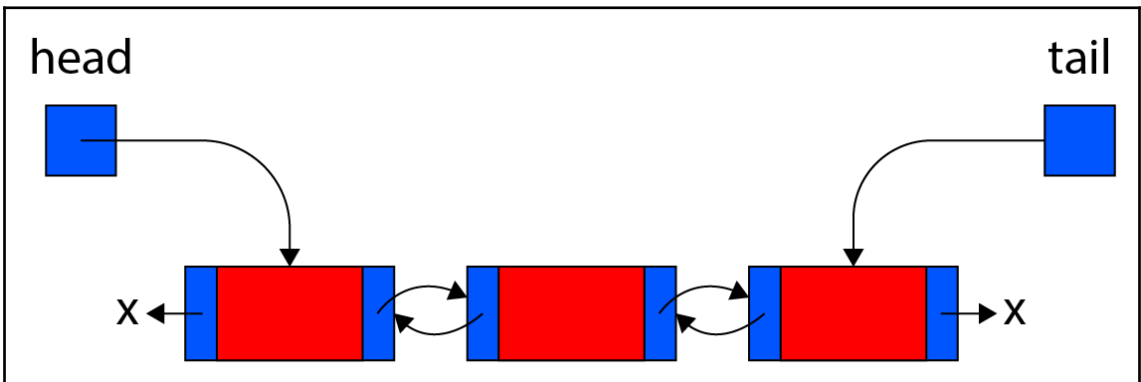
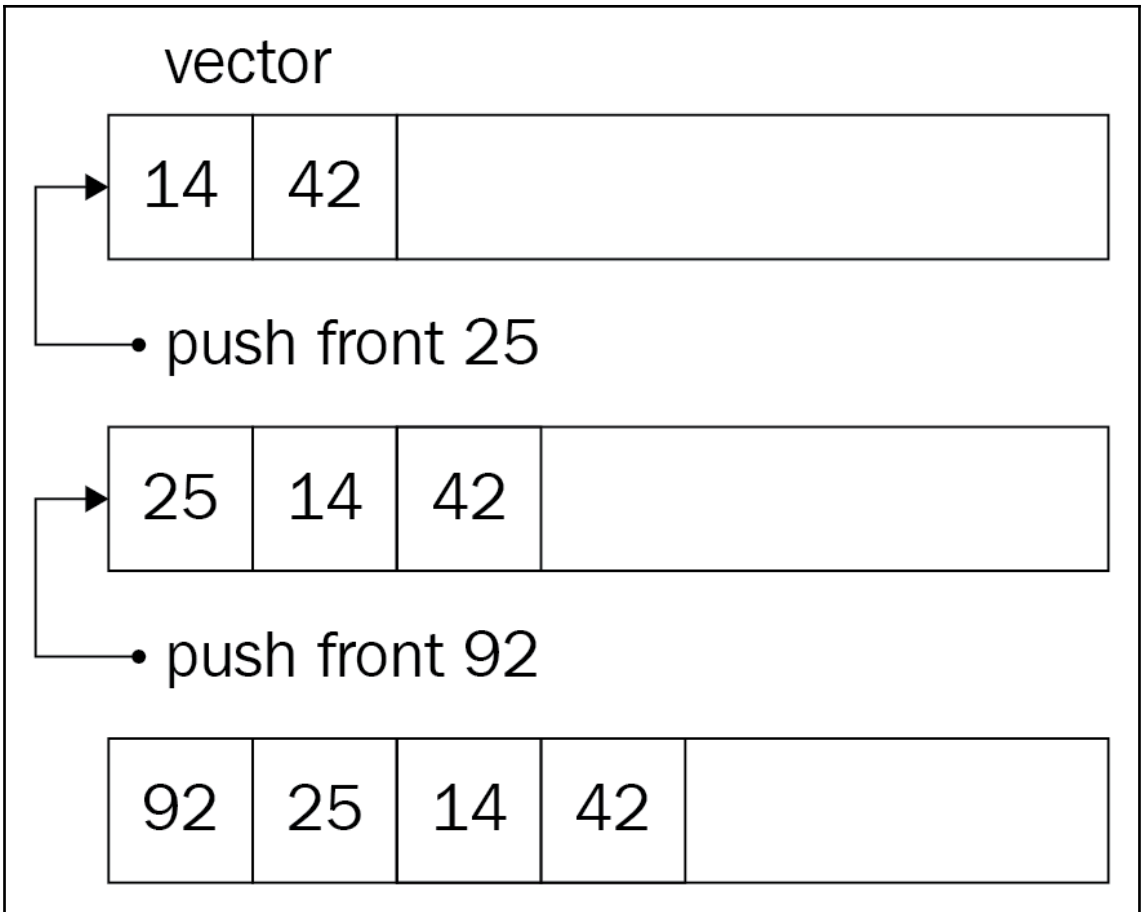


Chapter 6: Digging into Data Structures and Algorithms in STL







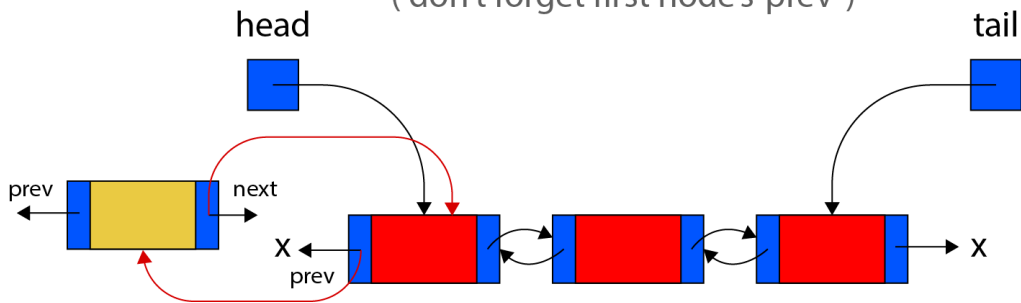


Case A) Insert at the front

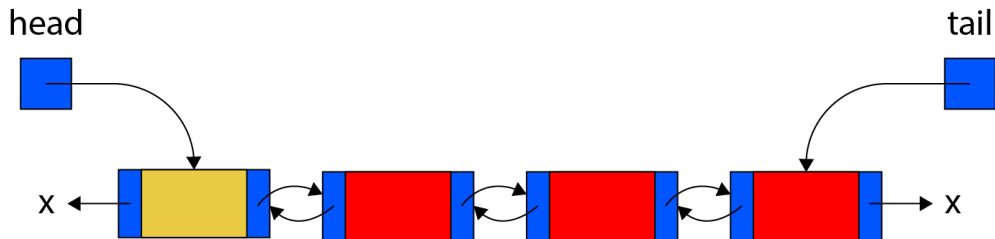
step 1) Create node



step 2) Assign its 'next' to the first node (head)
(don't forget first node's 'prev')



step 3) Make head to point to the new node (new first)

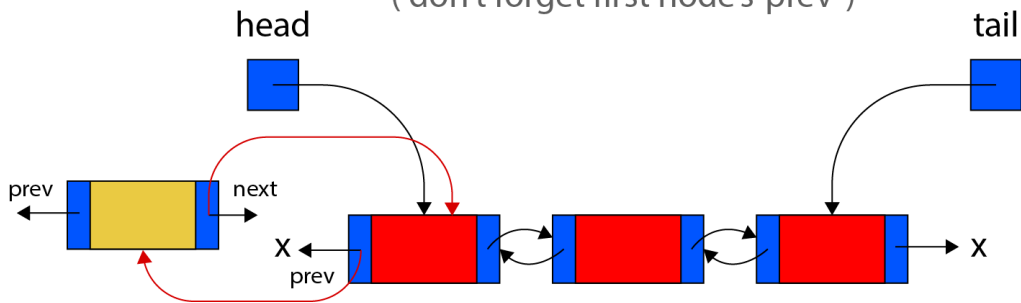


Case A) Insert at the front

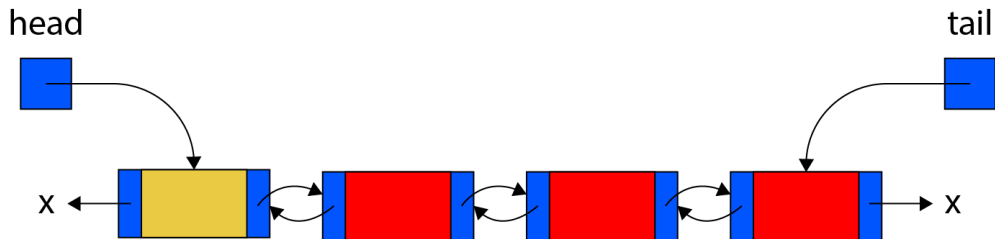
step 1) Create node



step 2) Assign its 'next' to the first node (head)
(don't forget first node's 'prev')



step 3) Make head to point to the new node (new first)

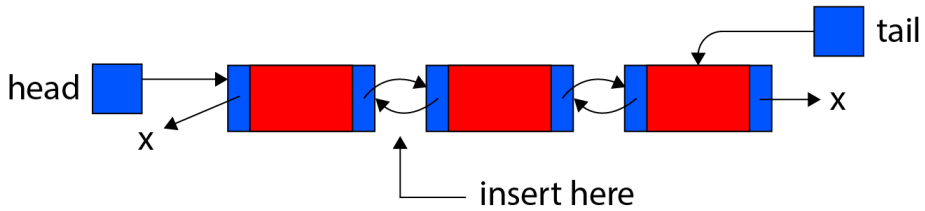


Case C) Insert at middle (any other position)

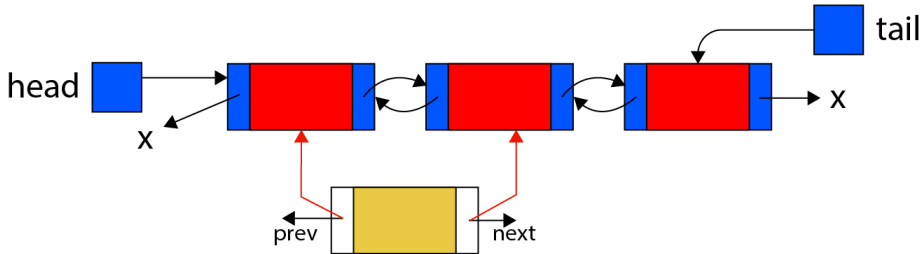
step 1) Create new node



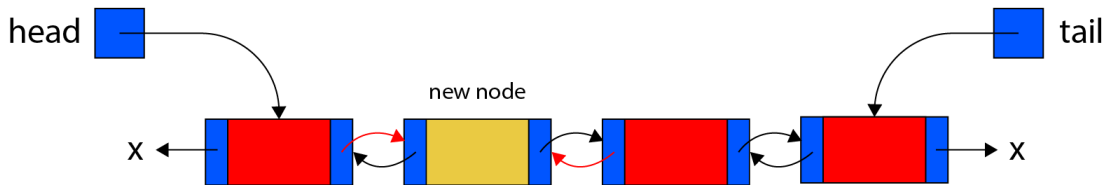
step 2) Find the position to insert

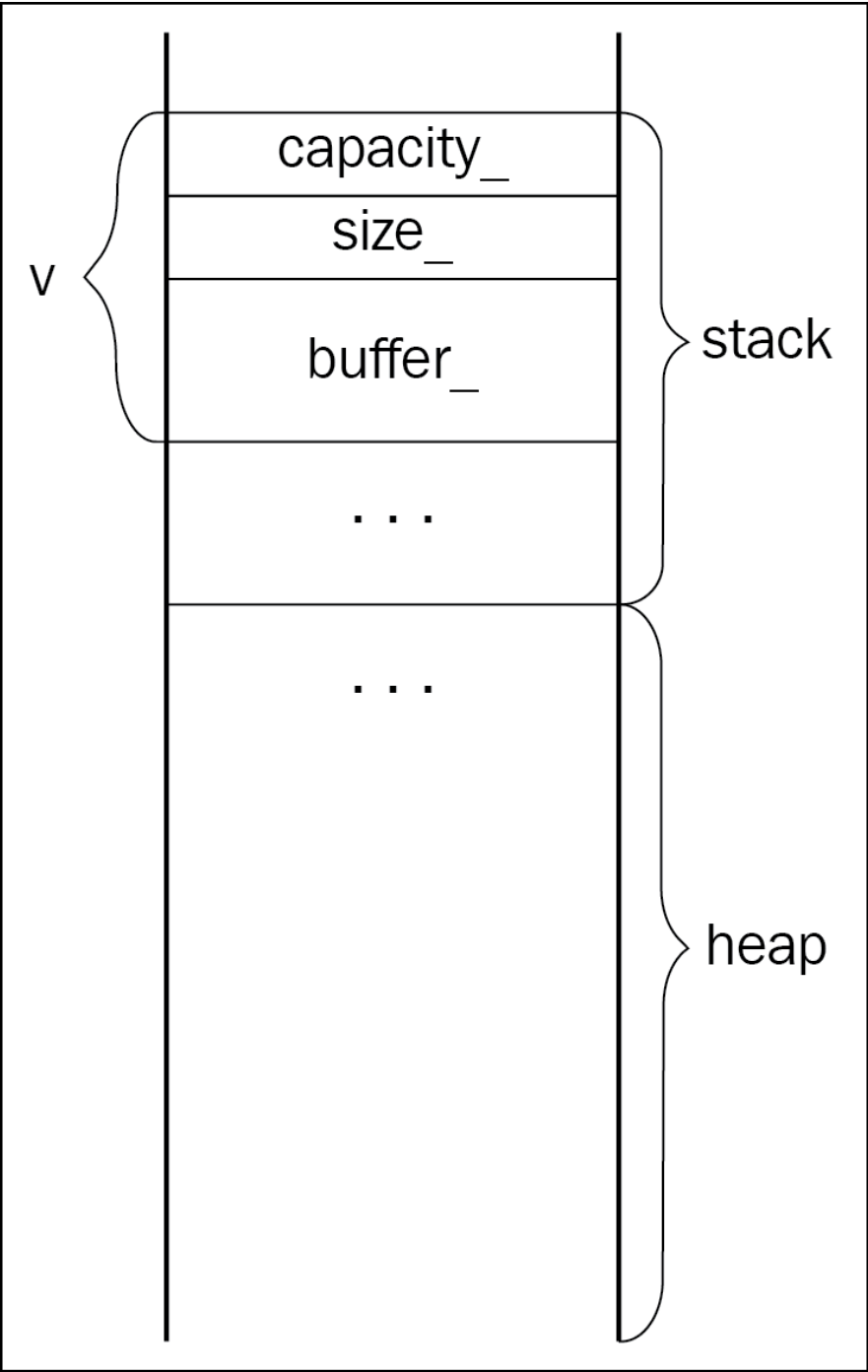


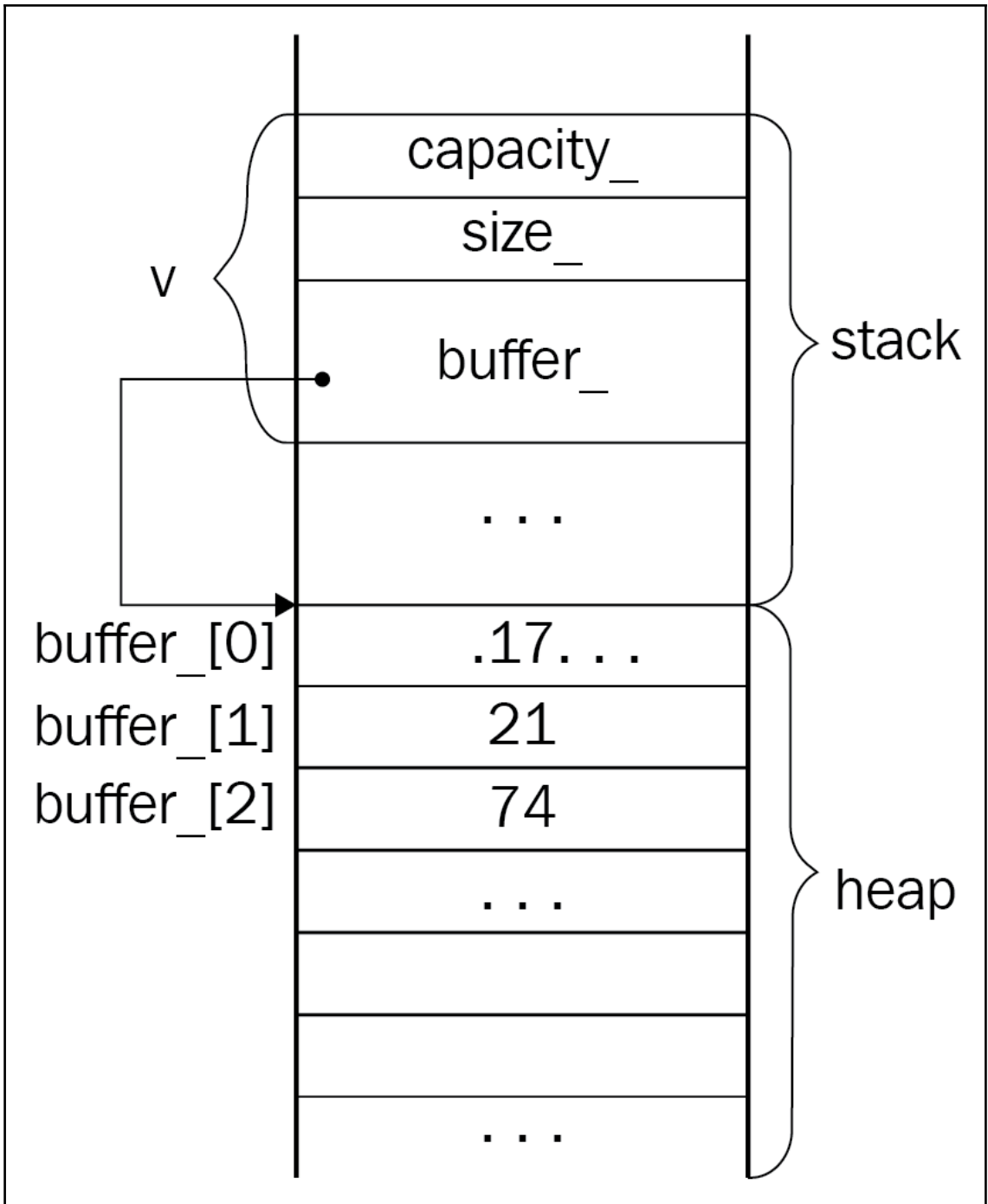
step 3) Assign new node's 'prev' and 'next' proper nodes

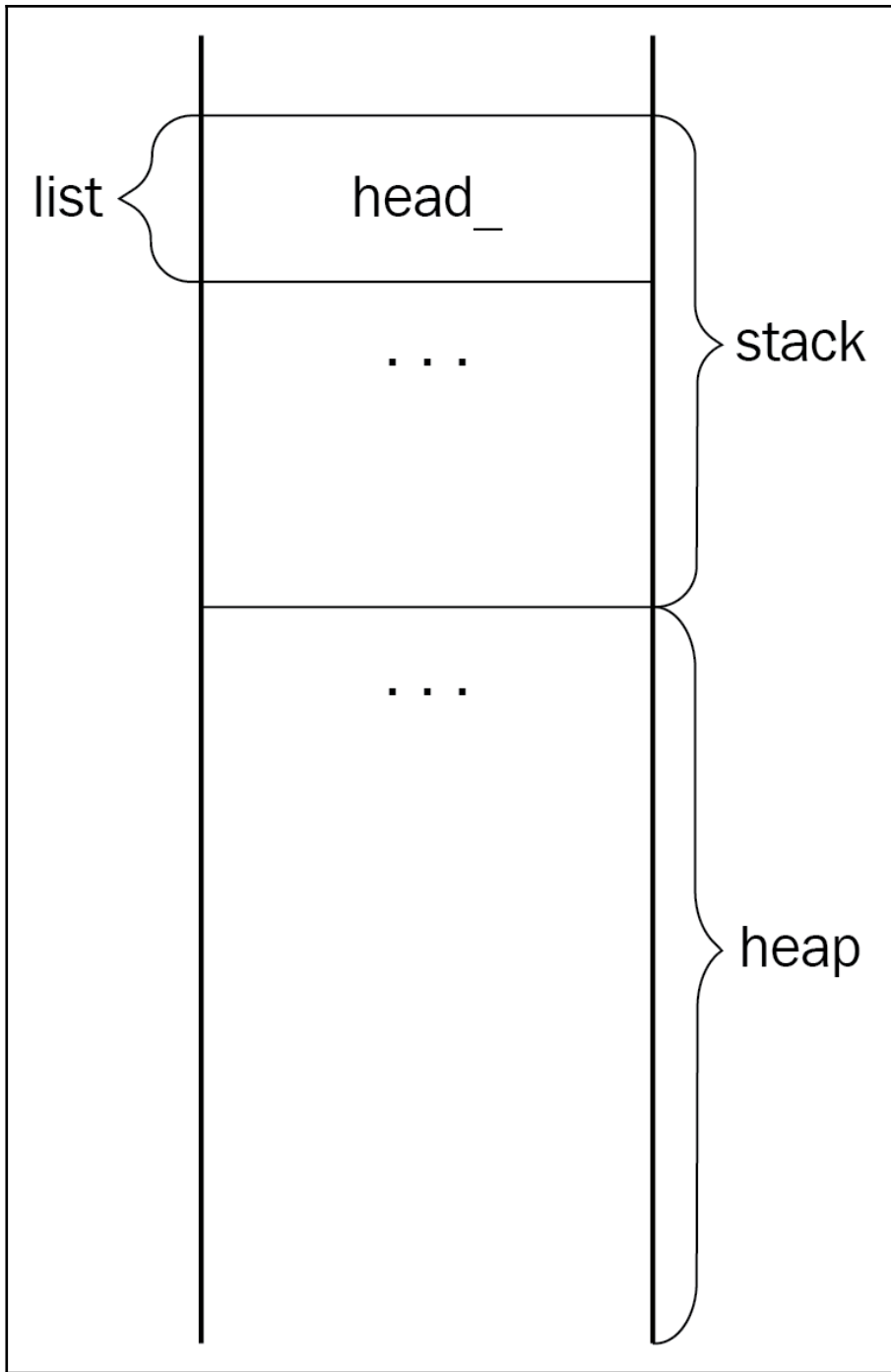


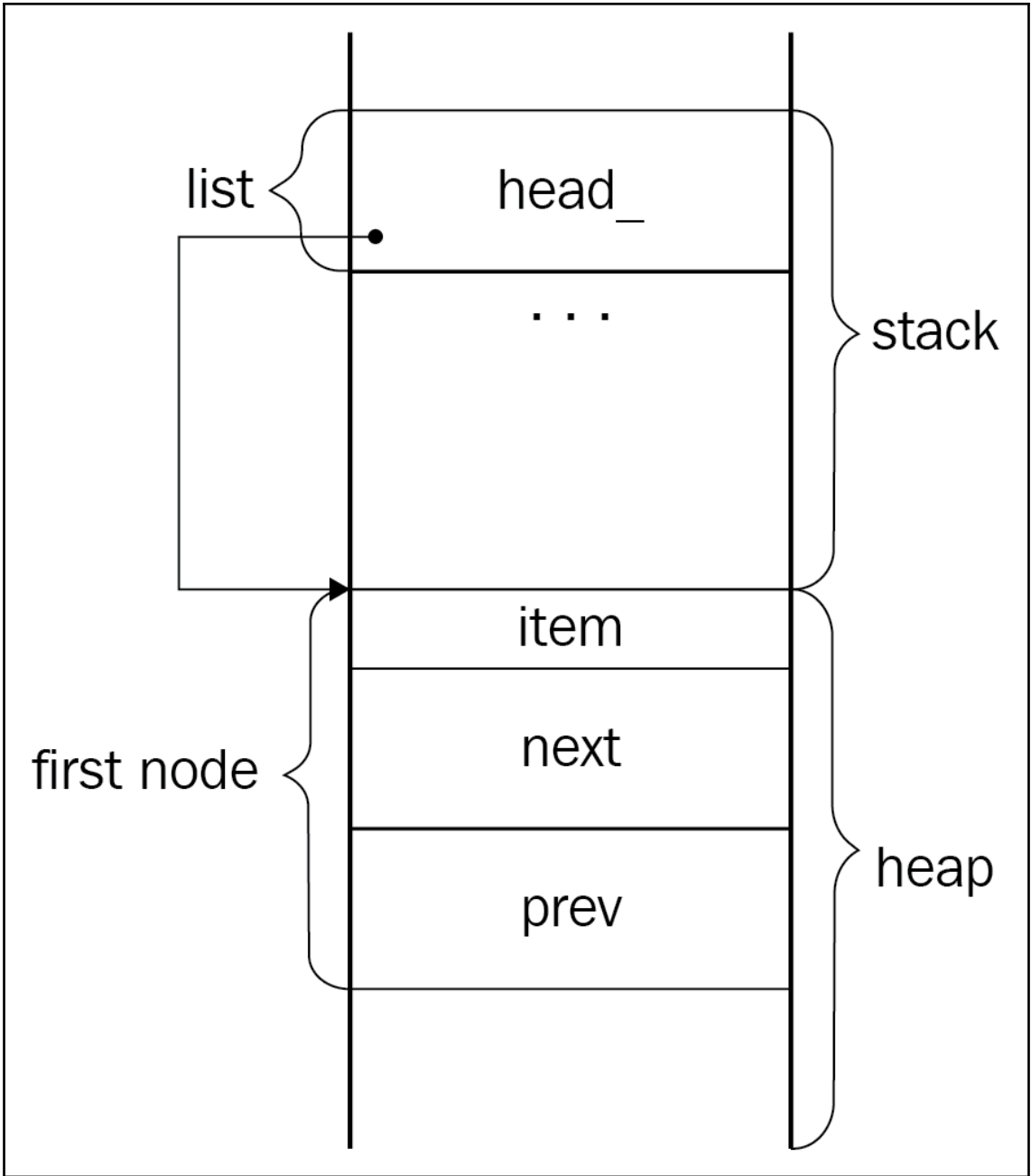
step 4) Update others nodes to point to new node

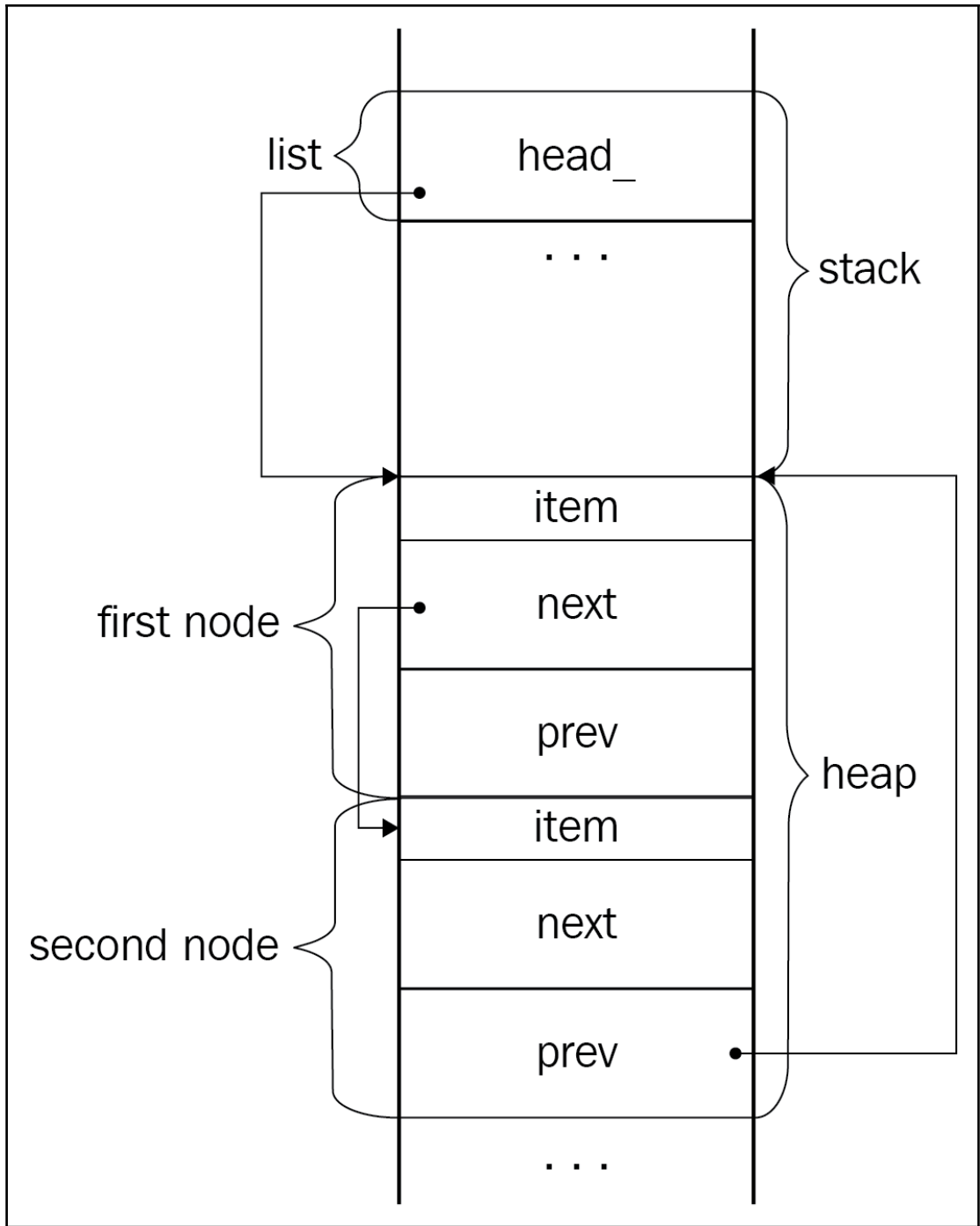


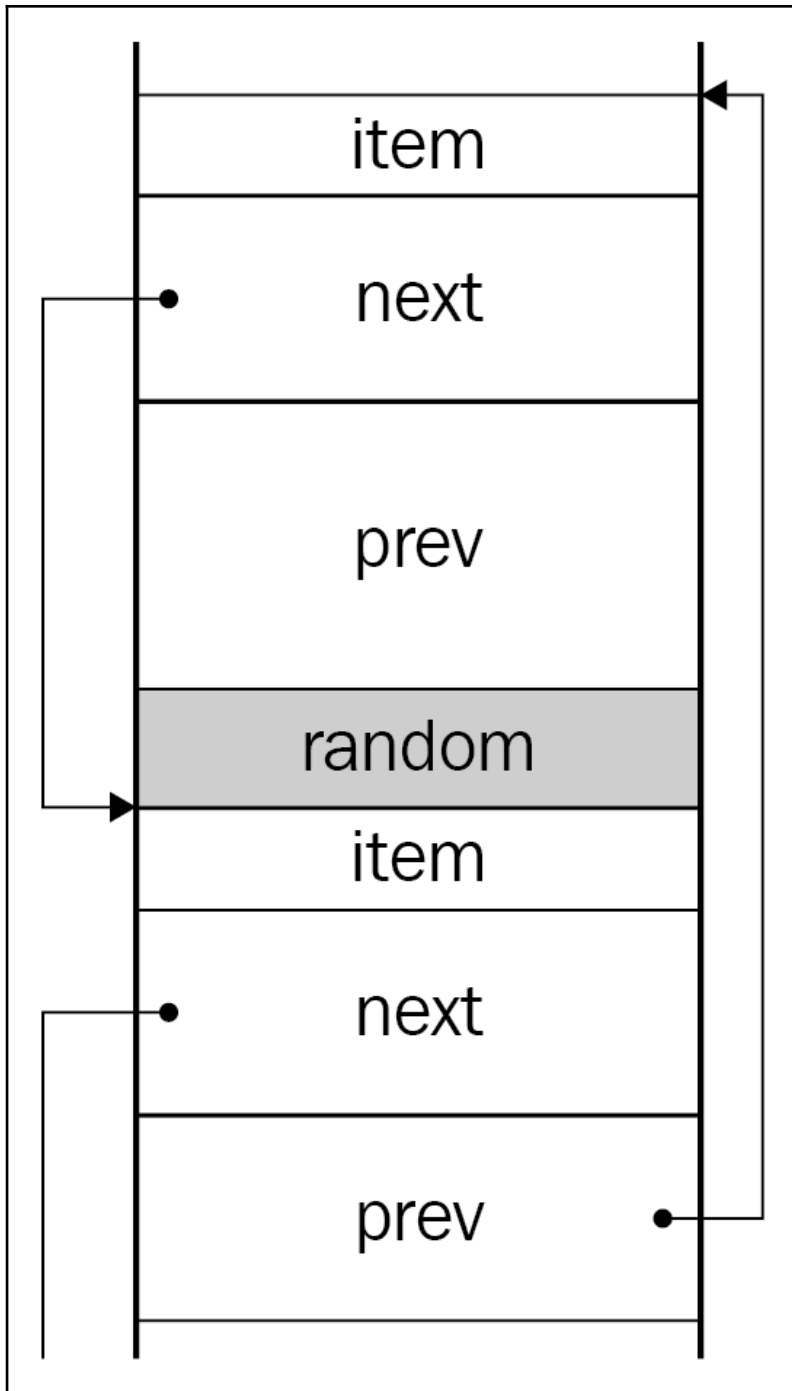


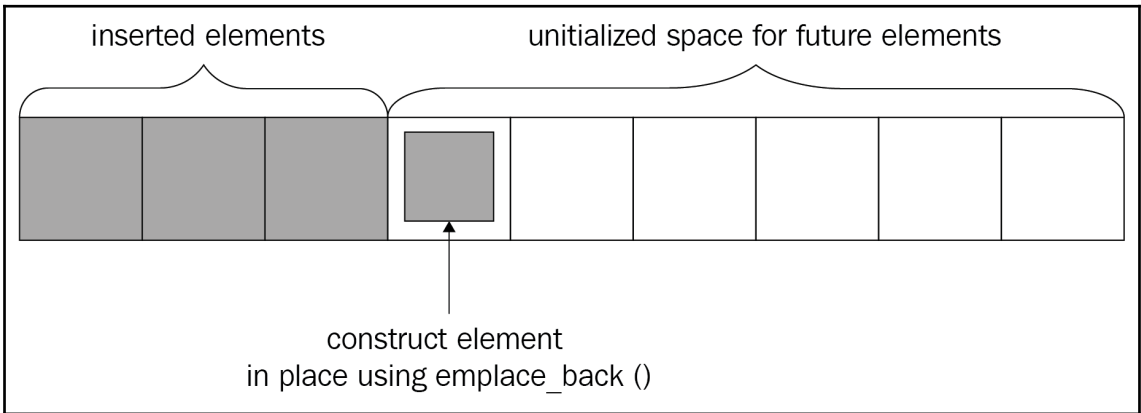
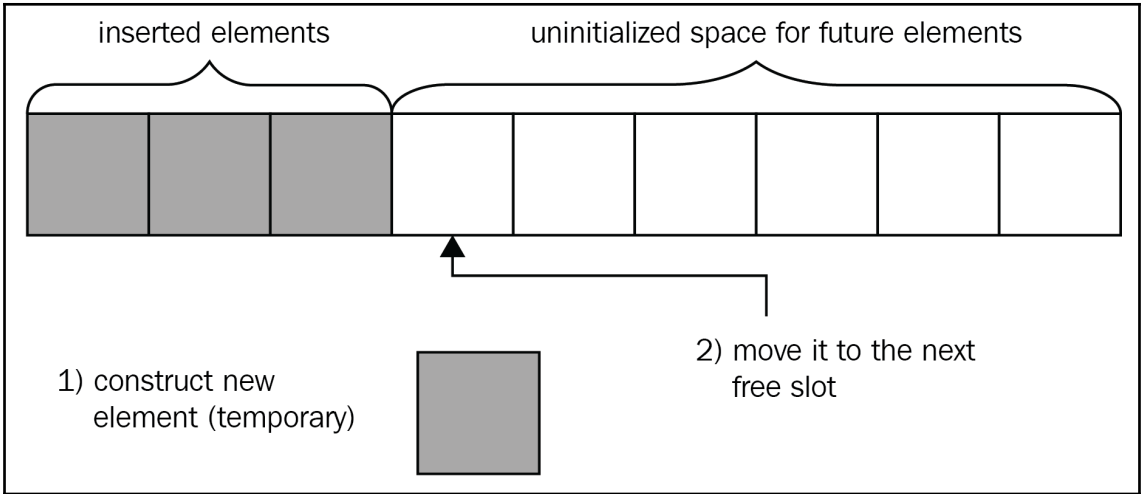






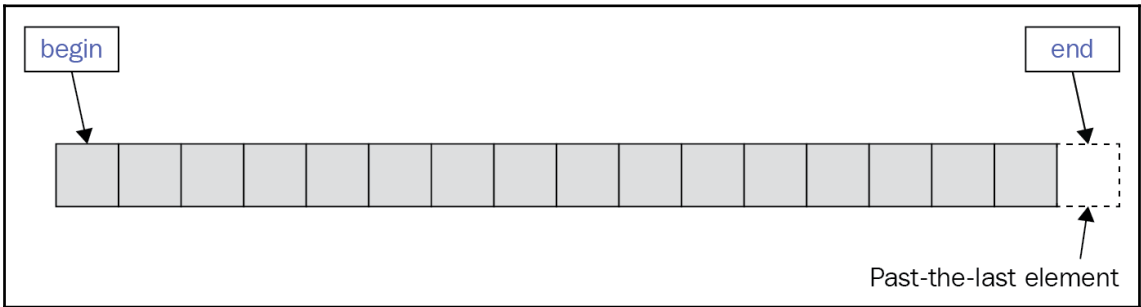
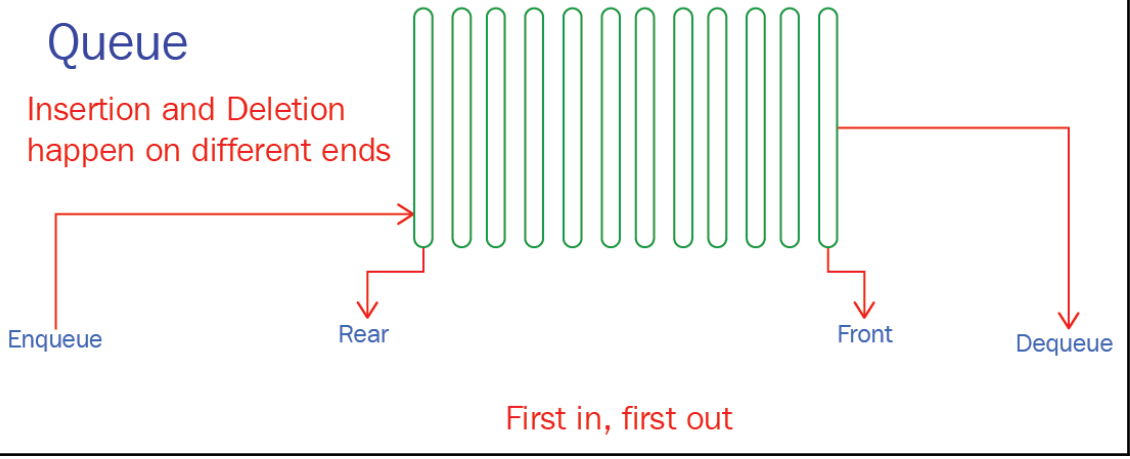


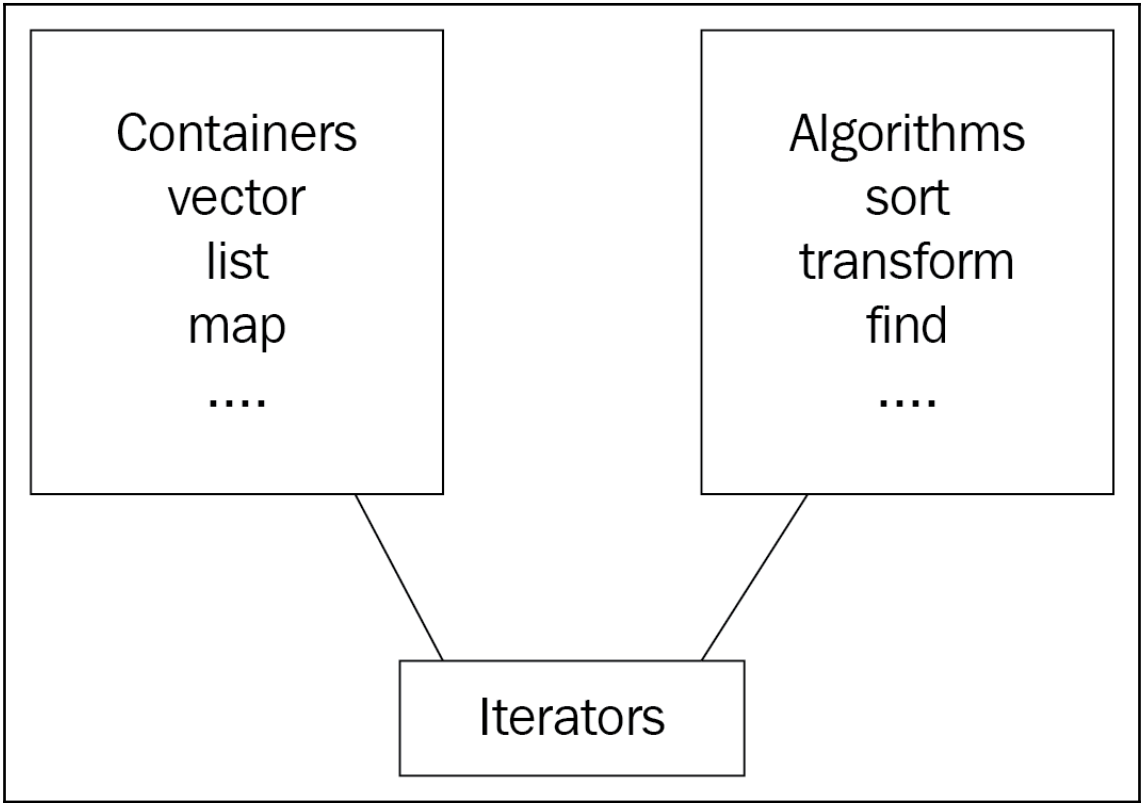


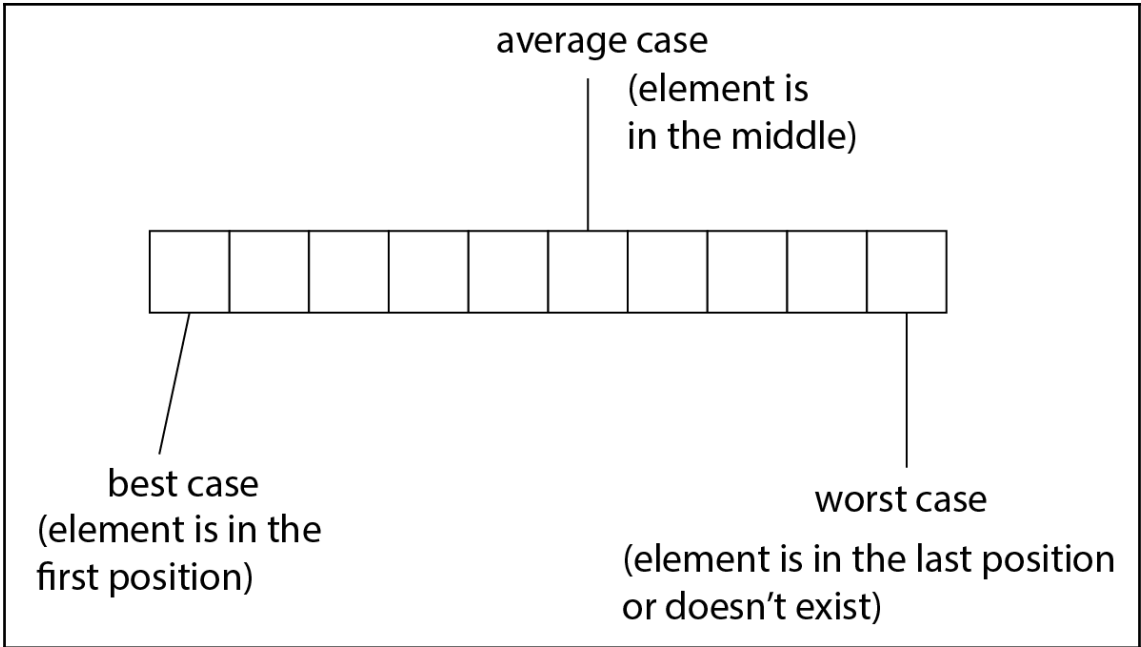


Queue

Insertion and Deletion happen on different ends







looking for 32

4	5	12	14	18	19	23	32	42
---	---	----	----	----	----	----	----	----

18 < 32

↓

19	23	32	42
----	----	----	----

23 < 32

↓

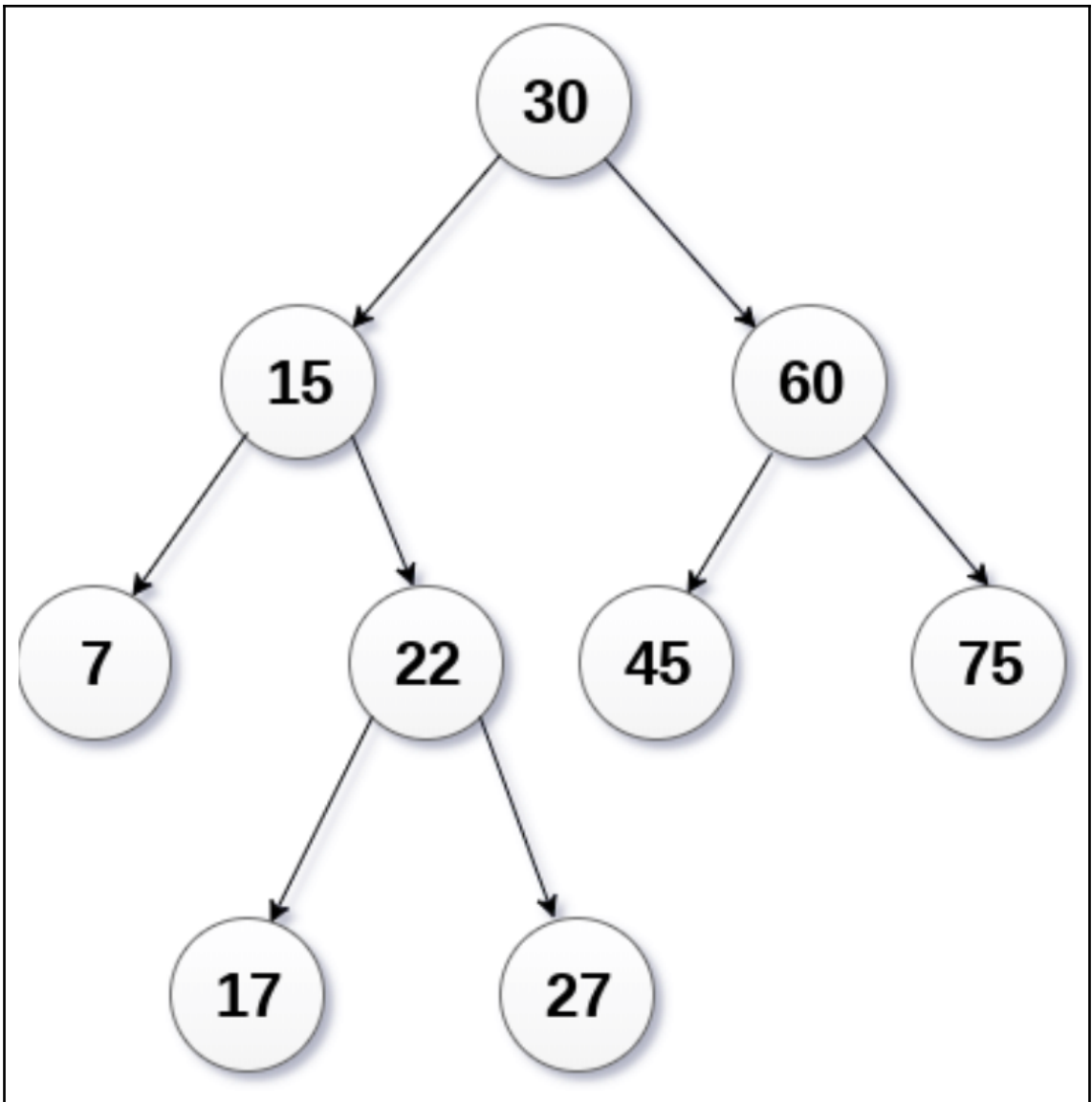
32	42
----	----

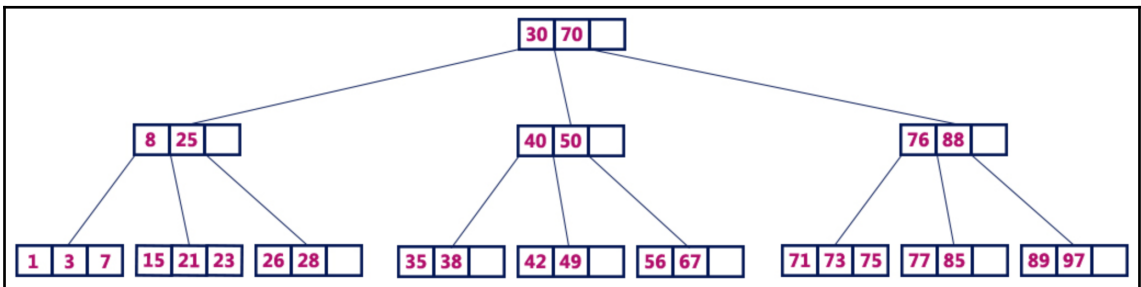
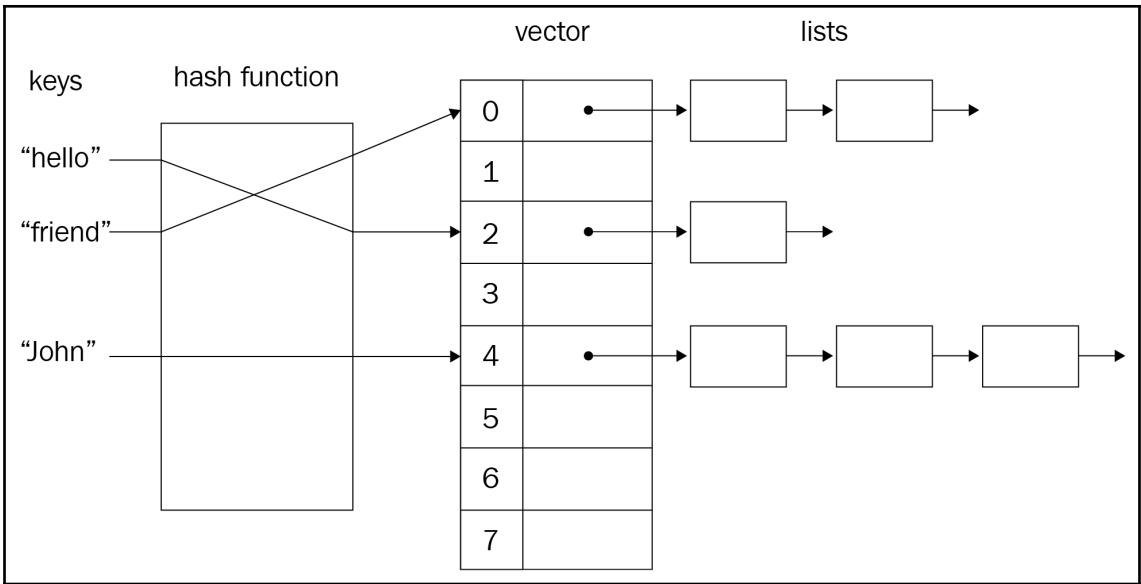
32 = 32

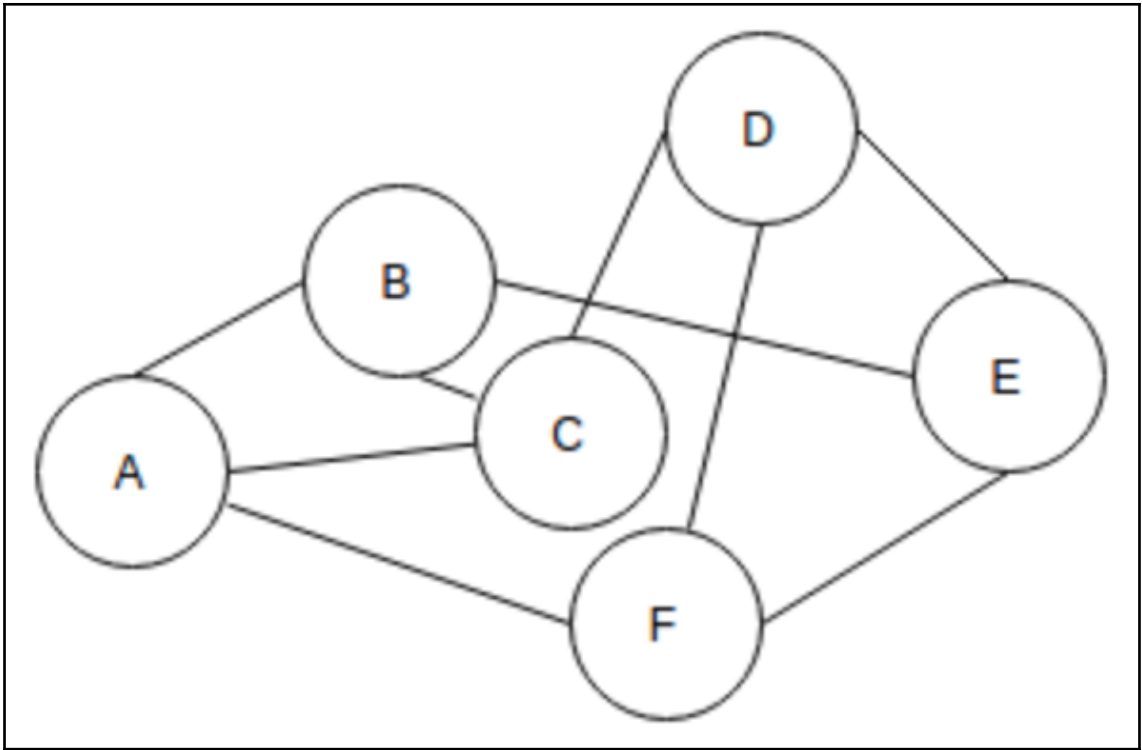
↓
found

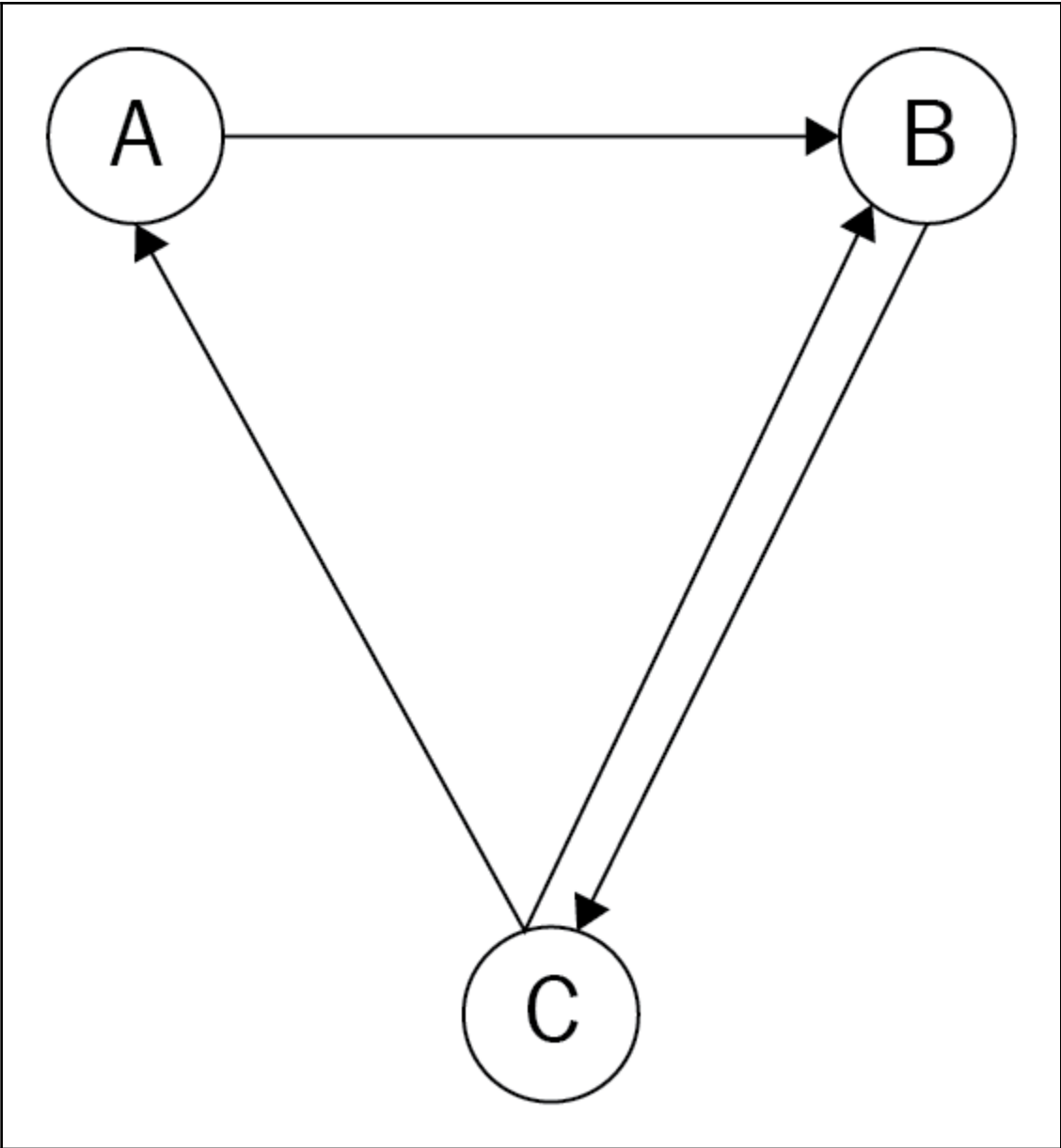
sorted	unsorted											
	7	11	-8	3	42	74	66	26	97	-18	0	3

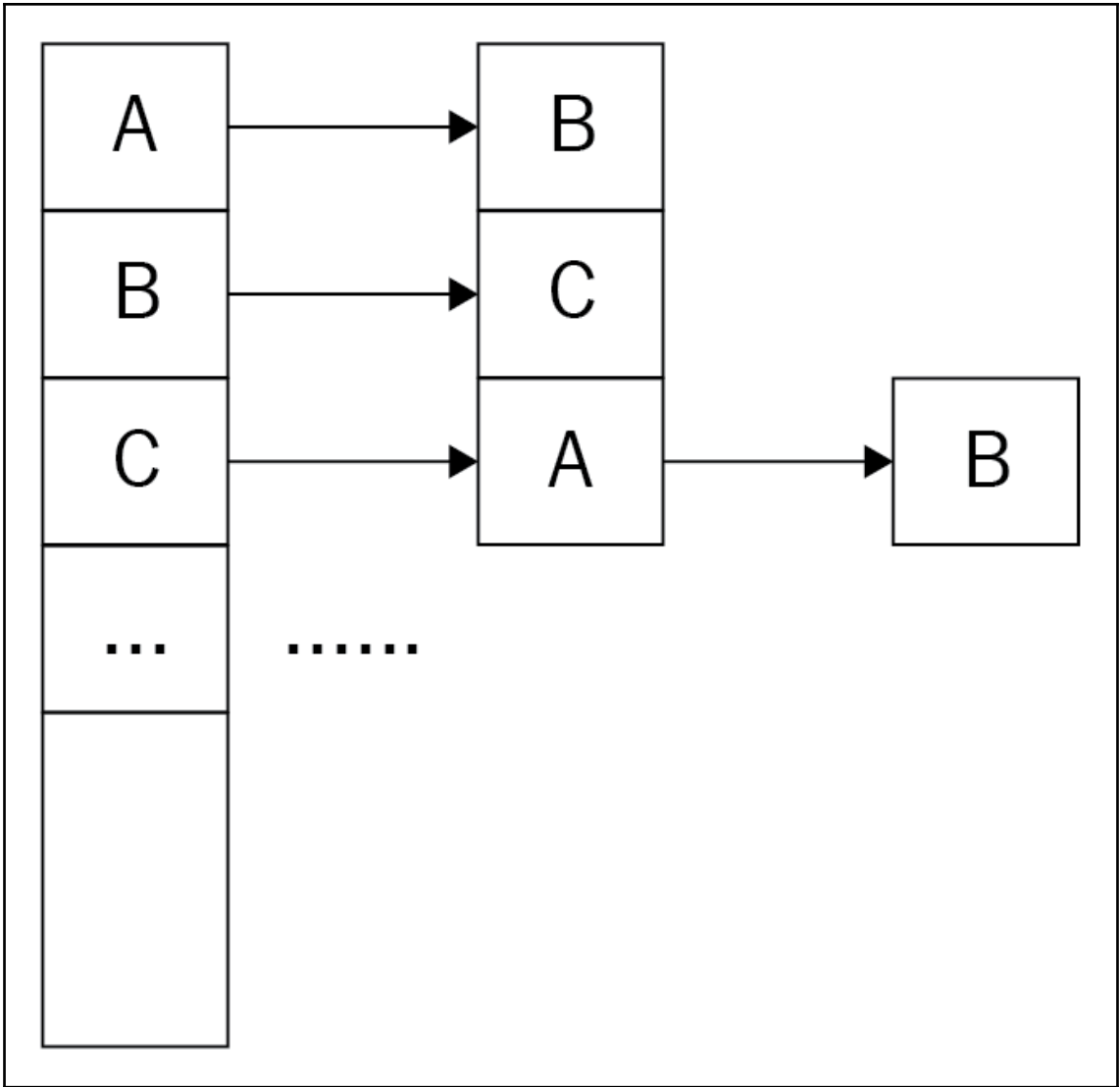
sorted	unsorted										
-18	11	-8	3	42	74	66	26	97	7	0	3





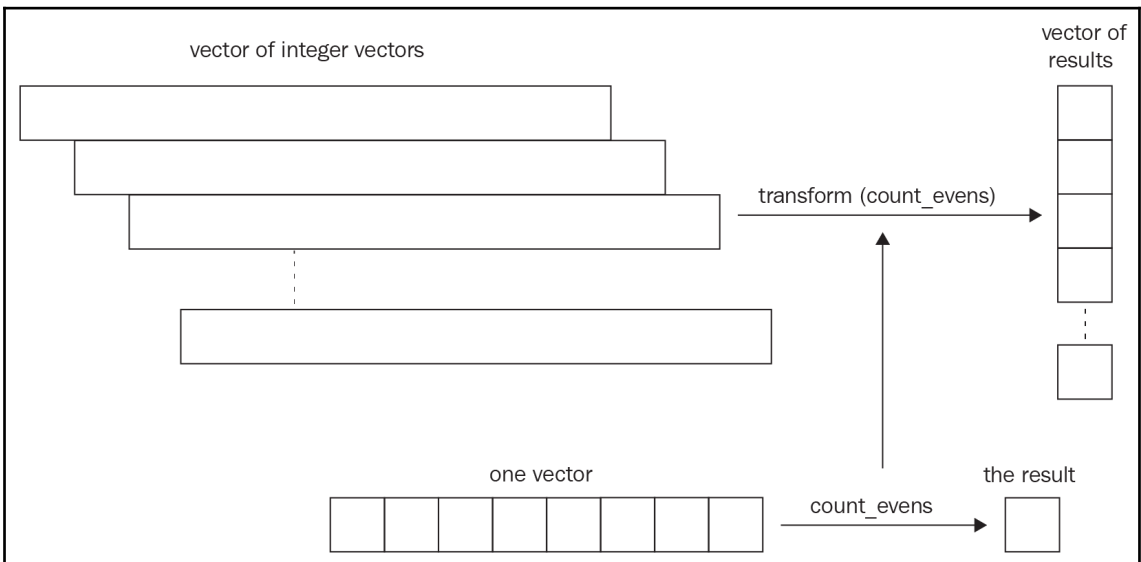
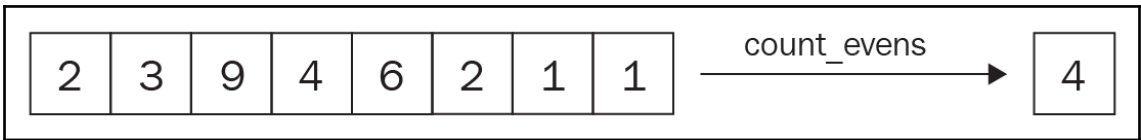
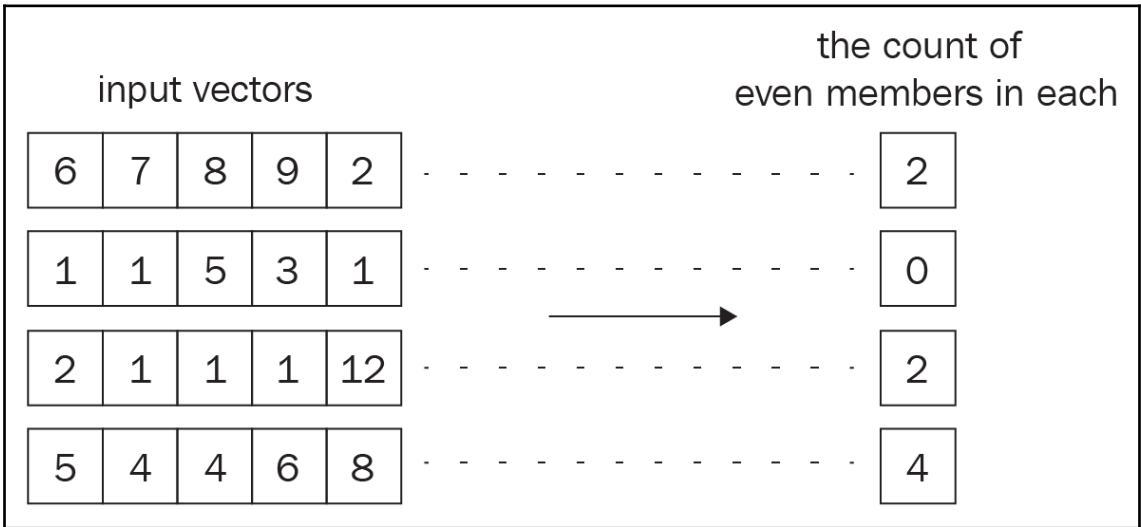


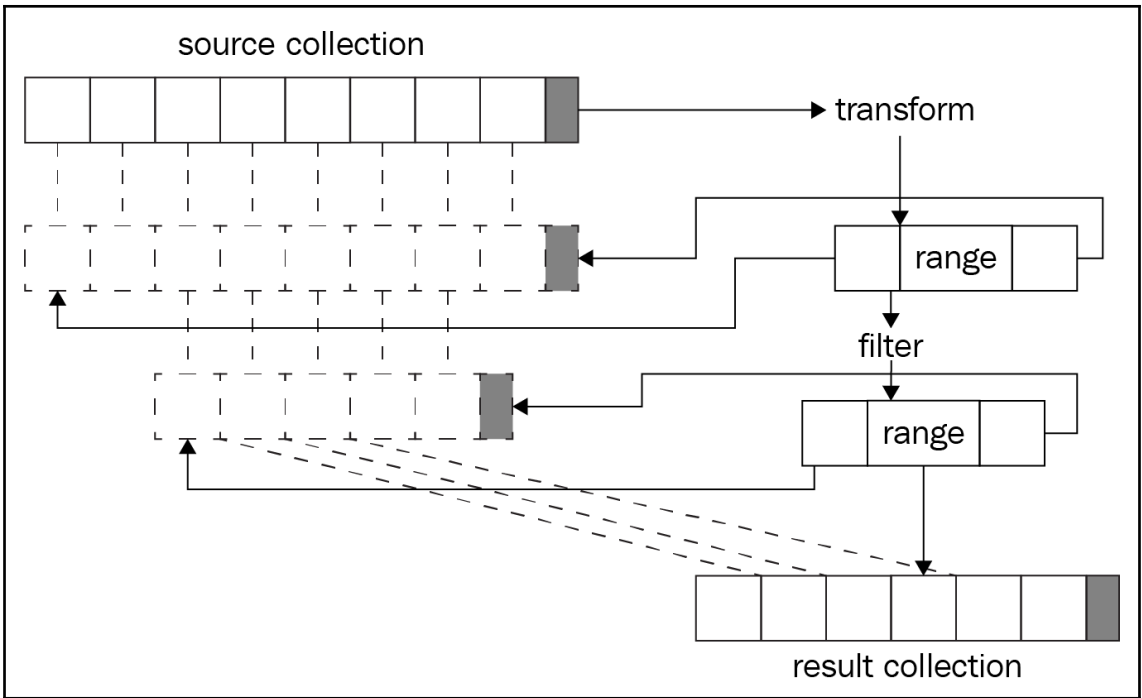




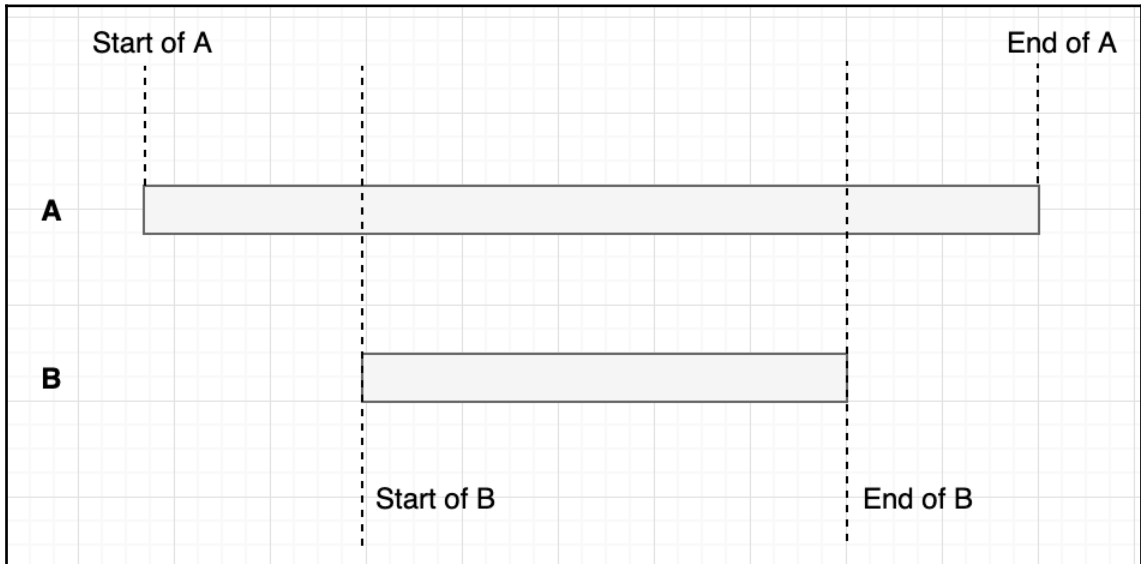
h	e	l	l	o	,		C	+	+	\0
0	1	2	3	4	5	6	7	8	9	10

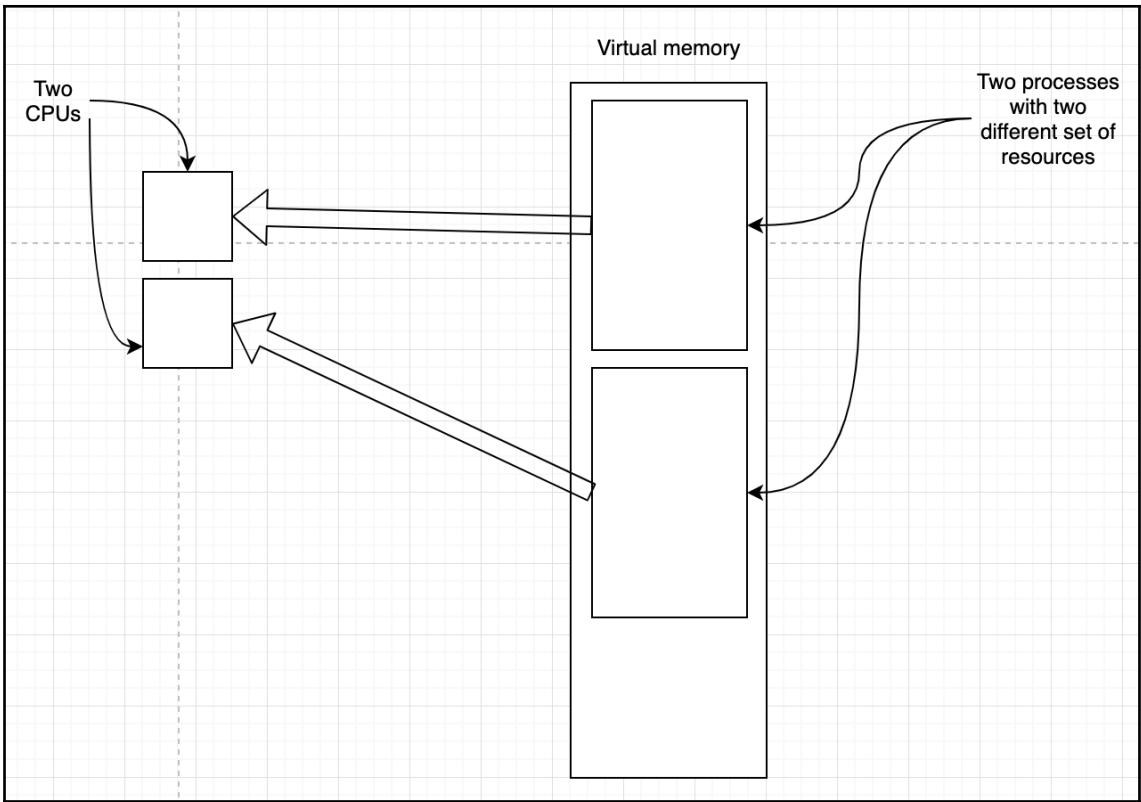
Chapter 7: Functional Programming

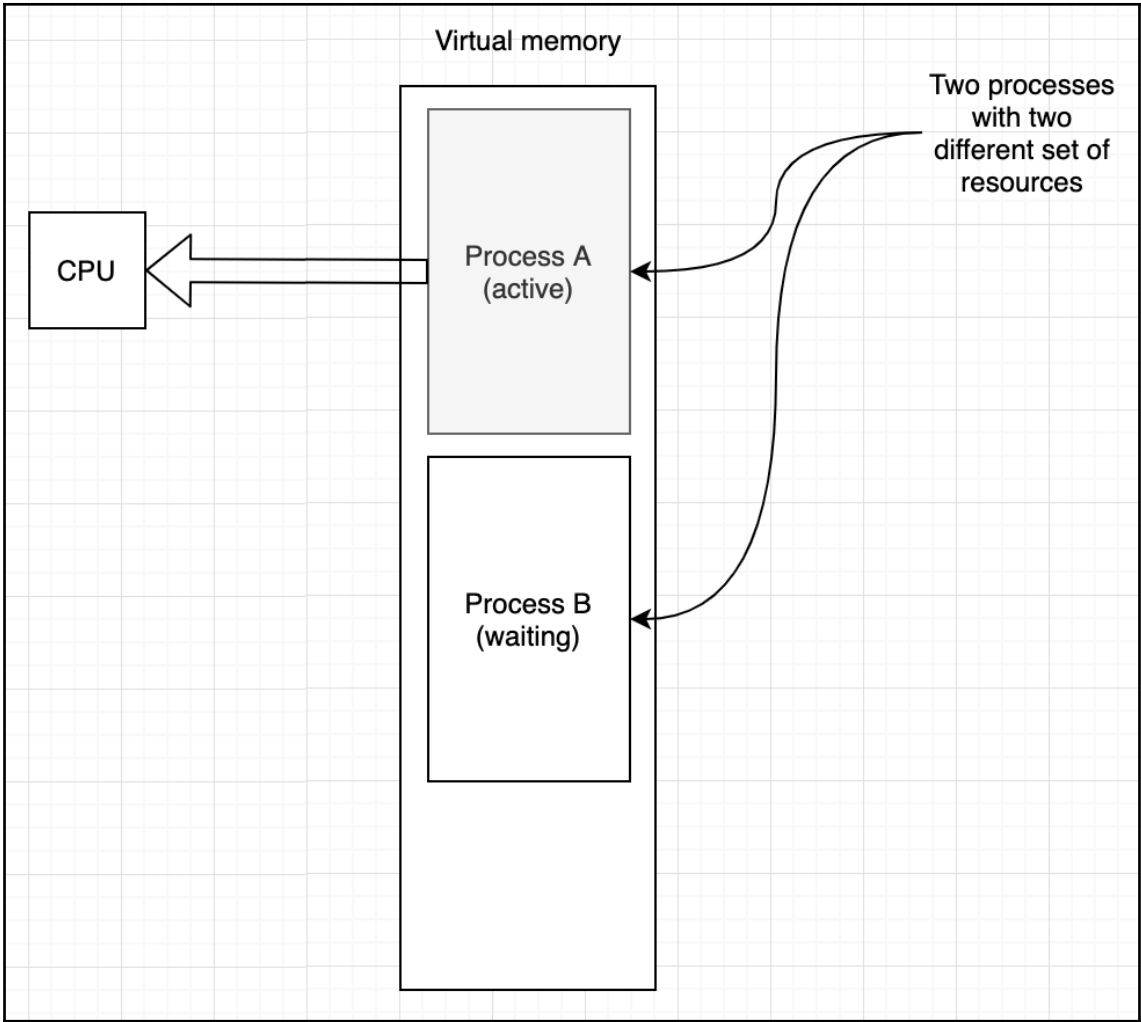


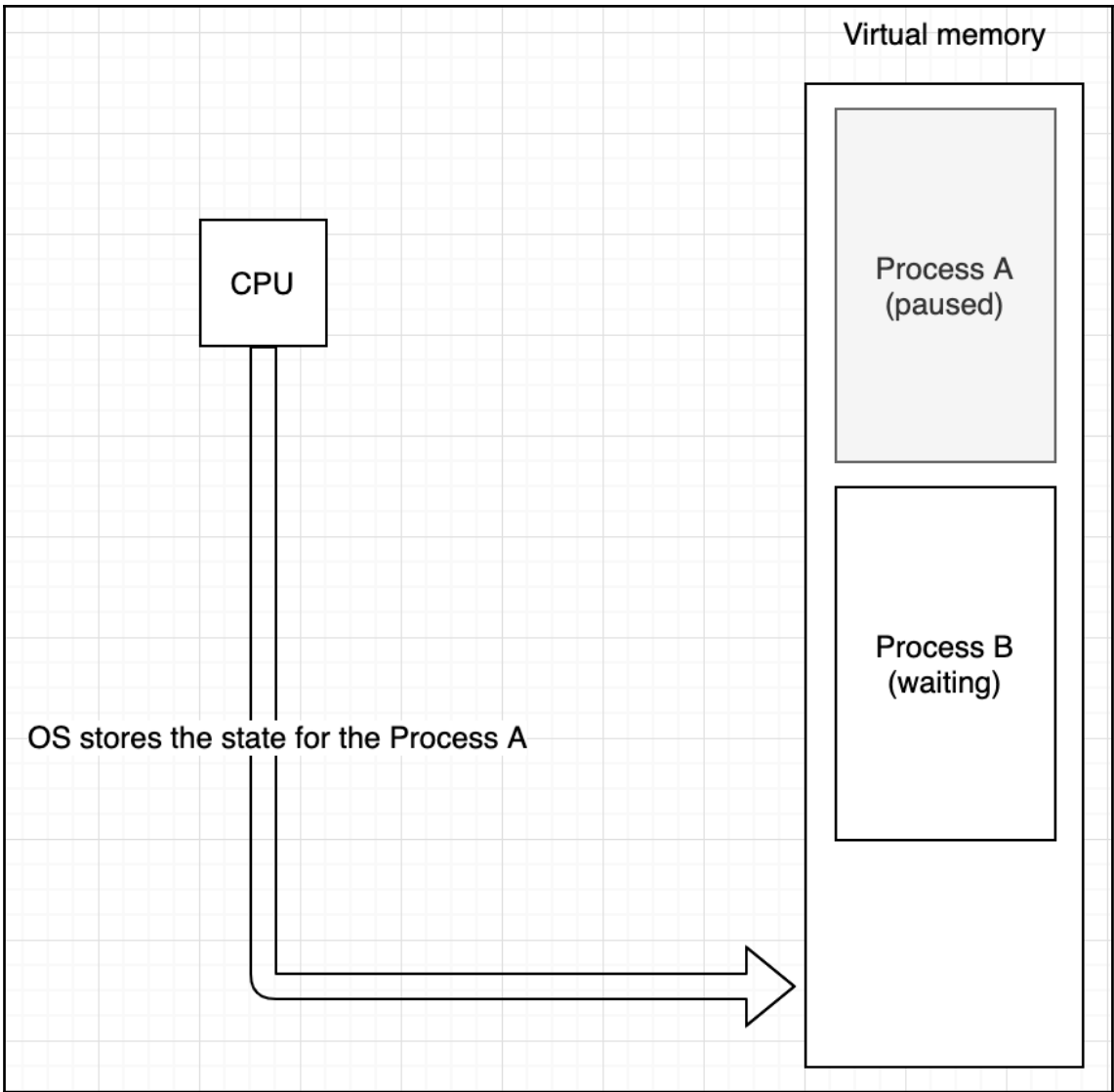


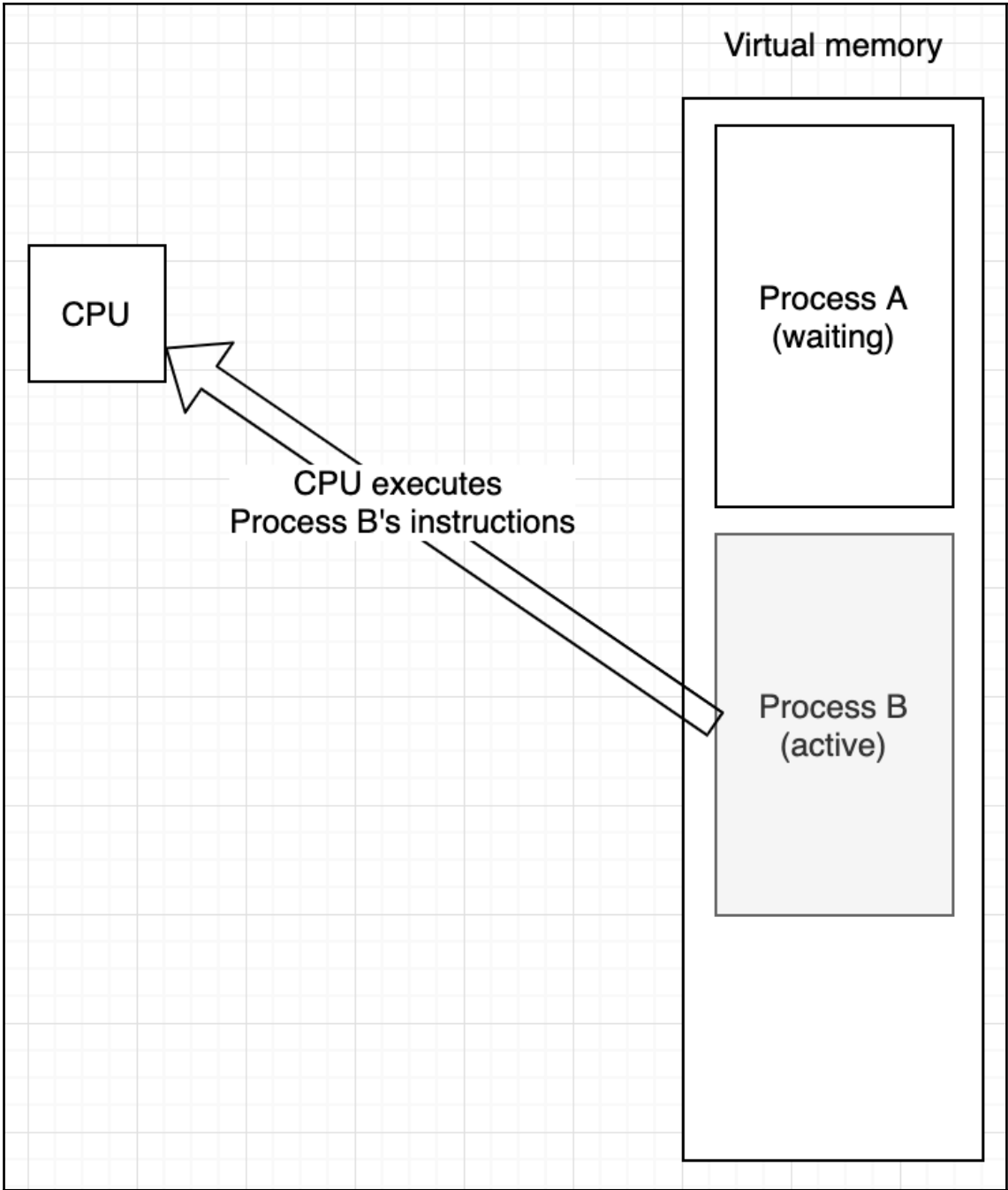
Chapter 8: Concurrency and Multithreading

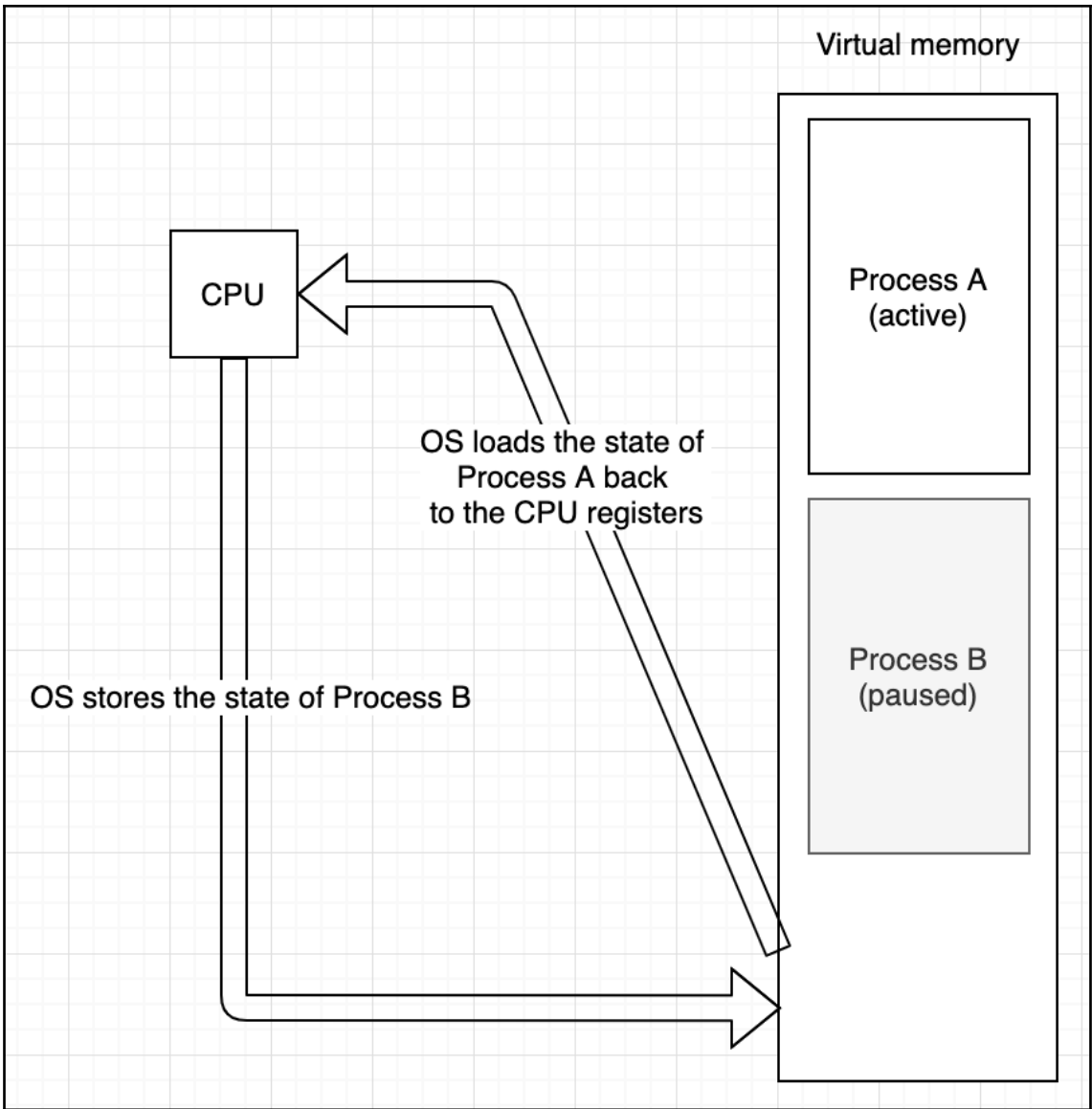


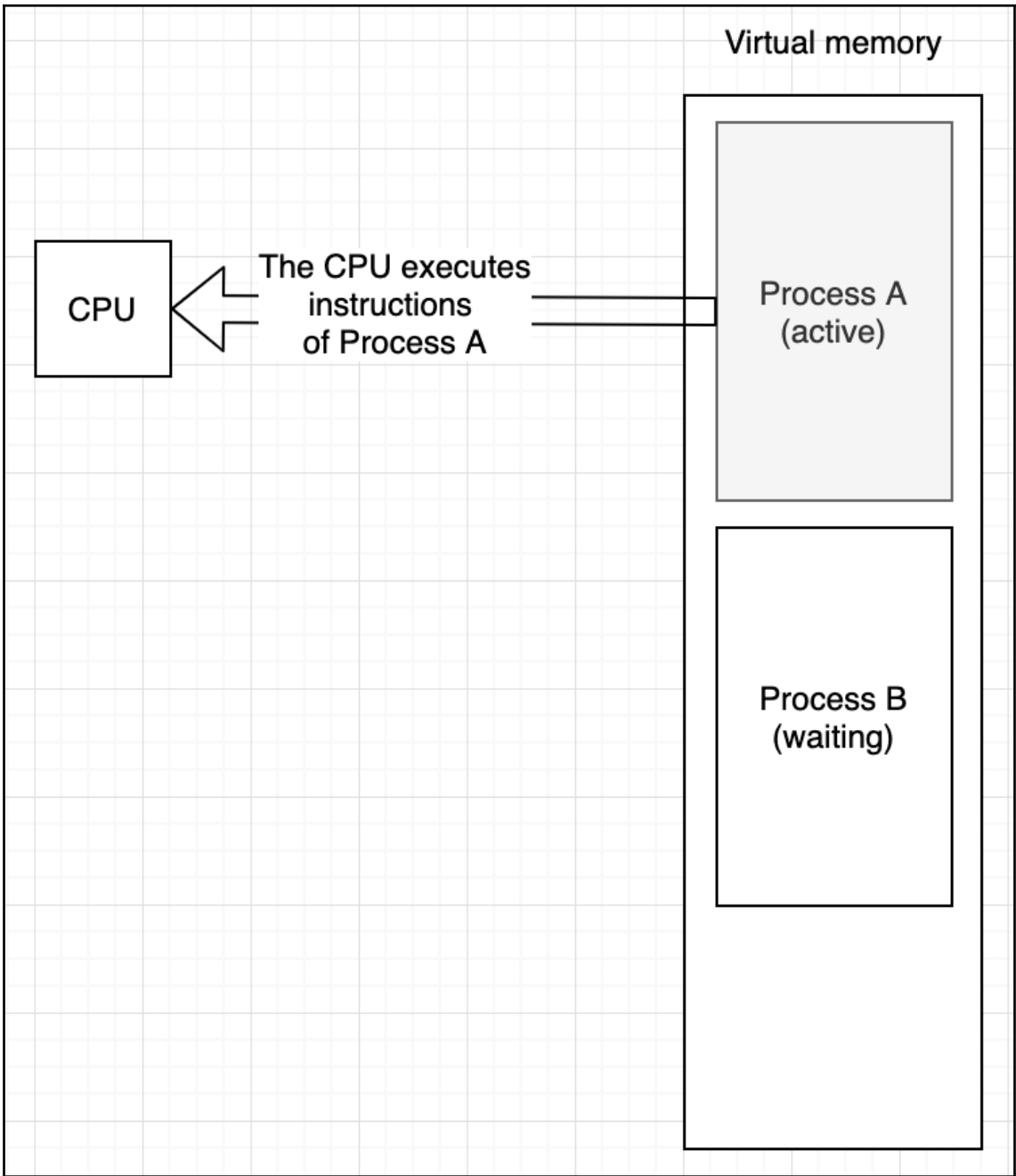


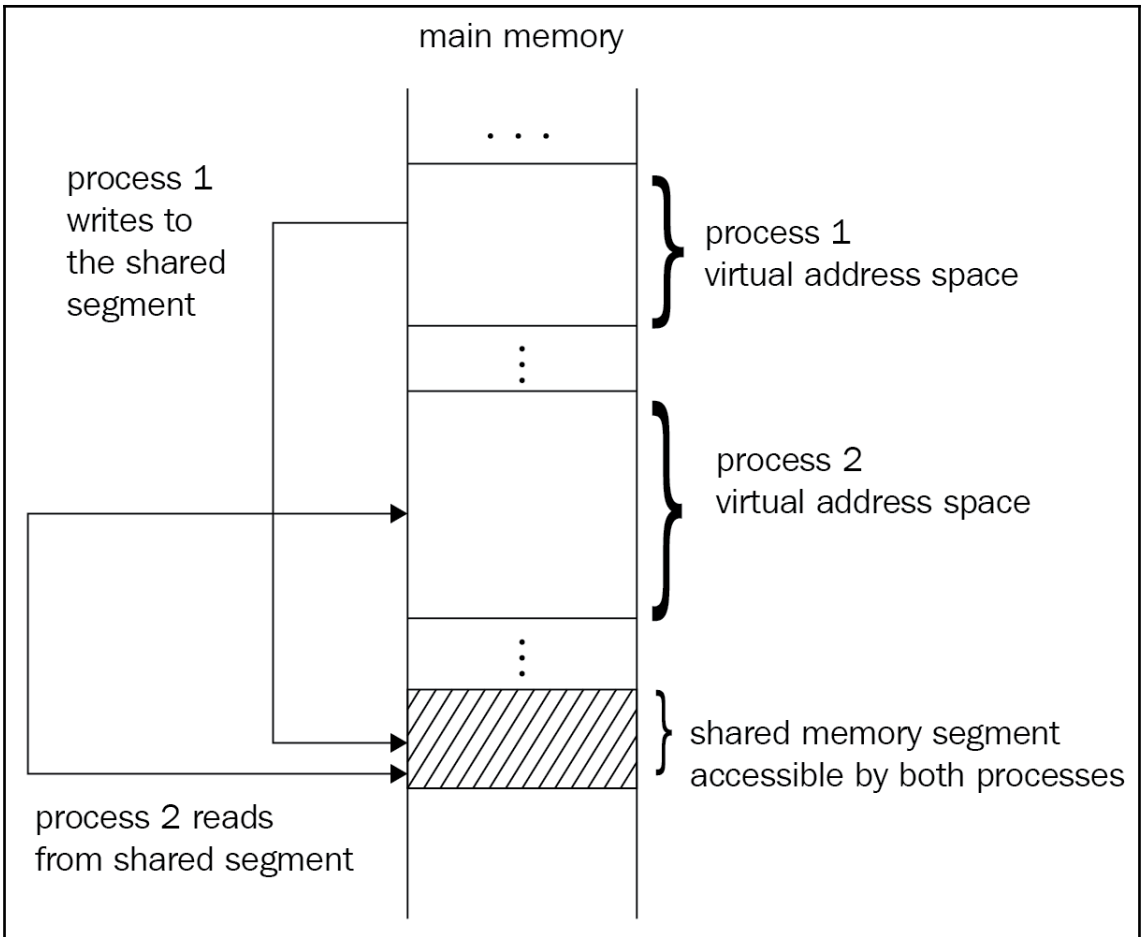


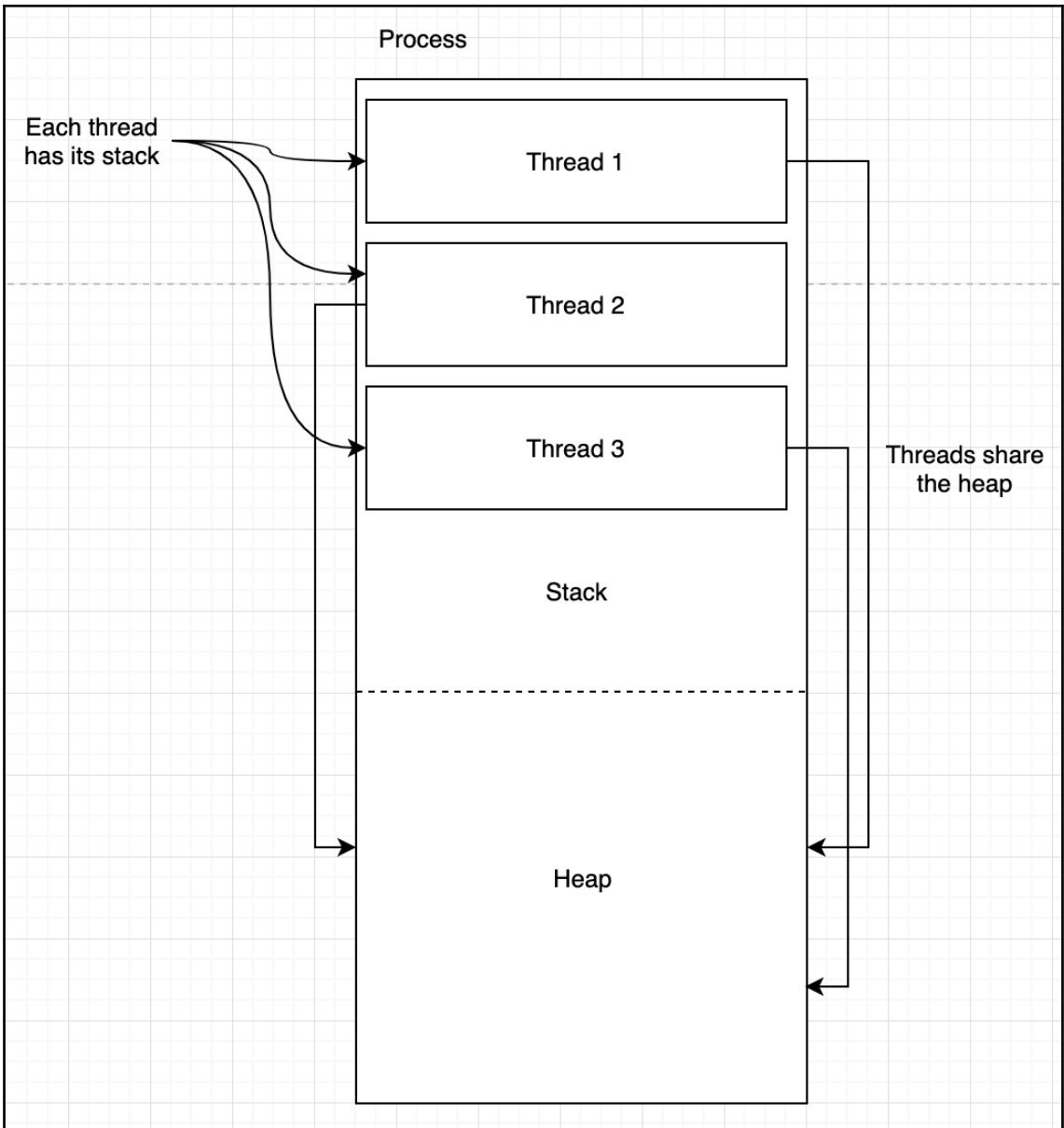


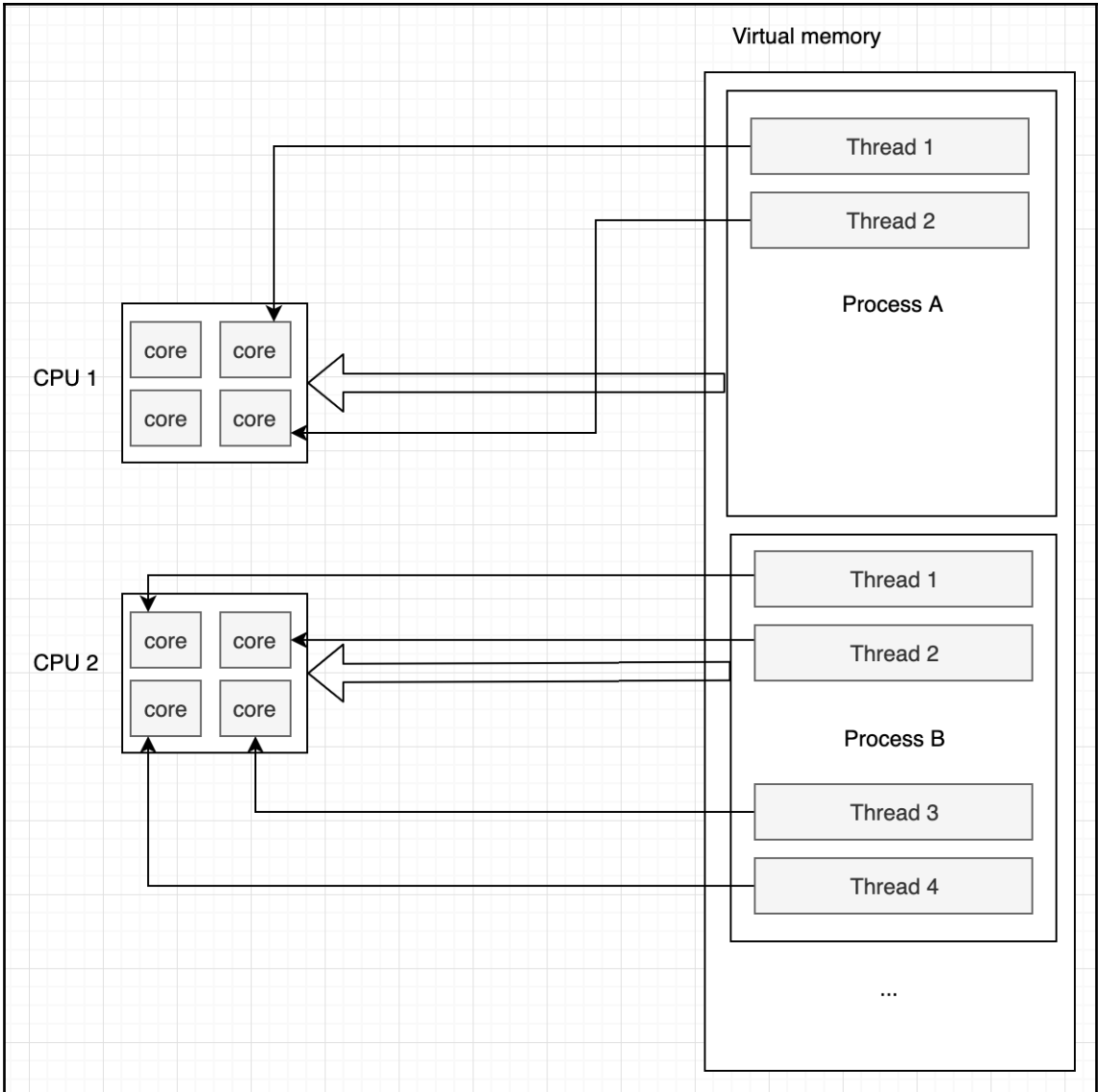


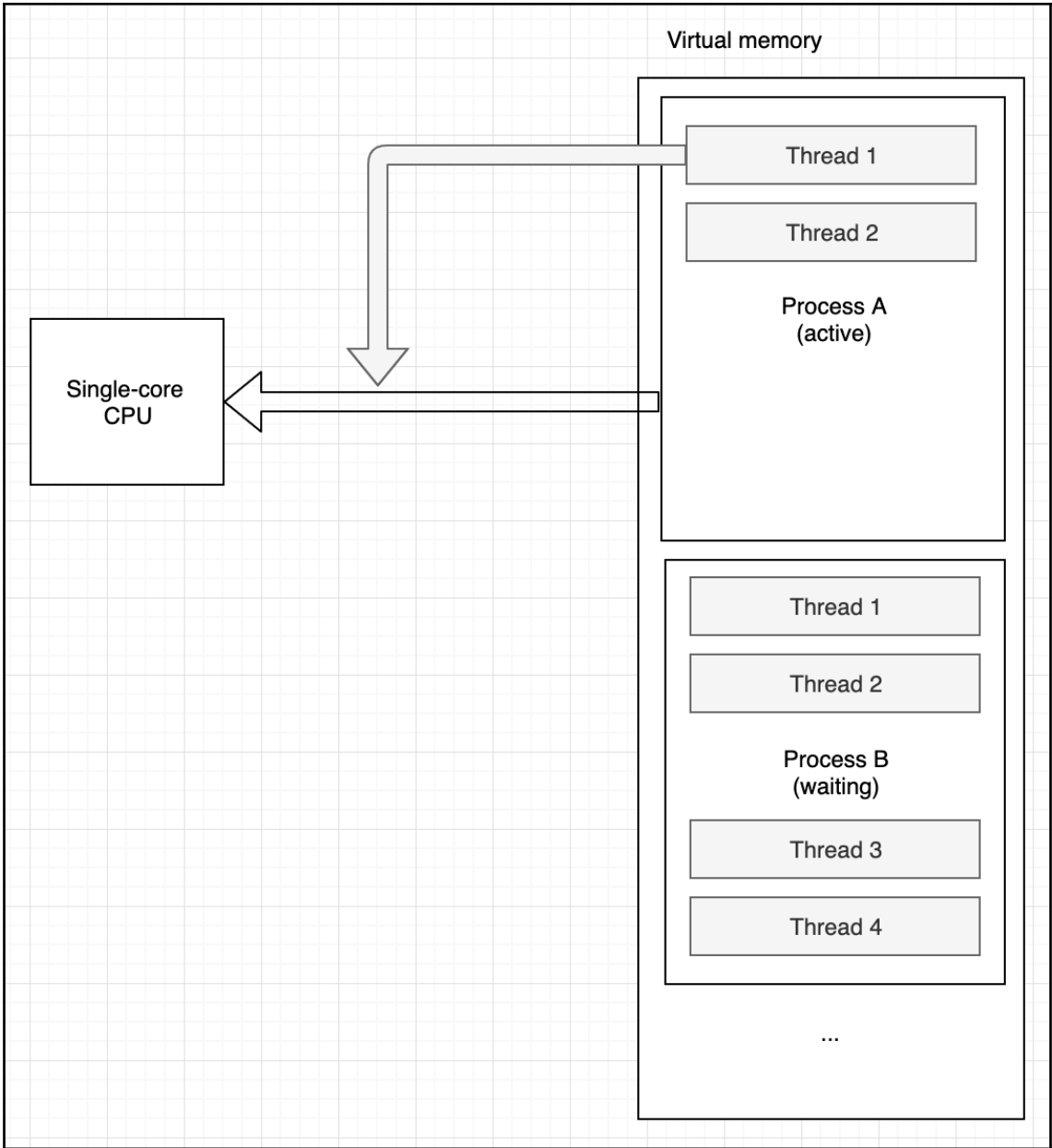


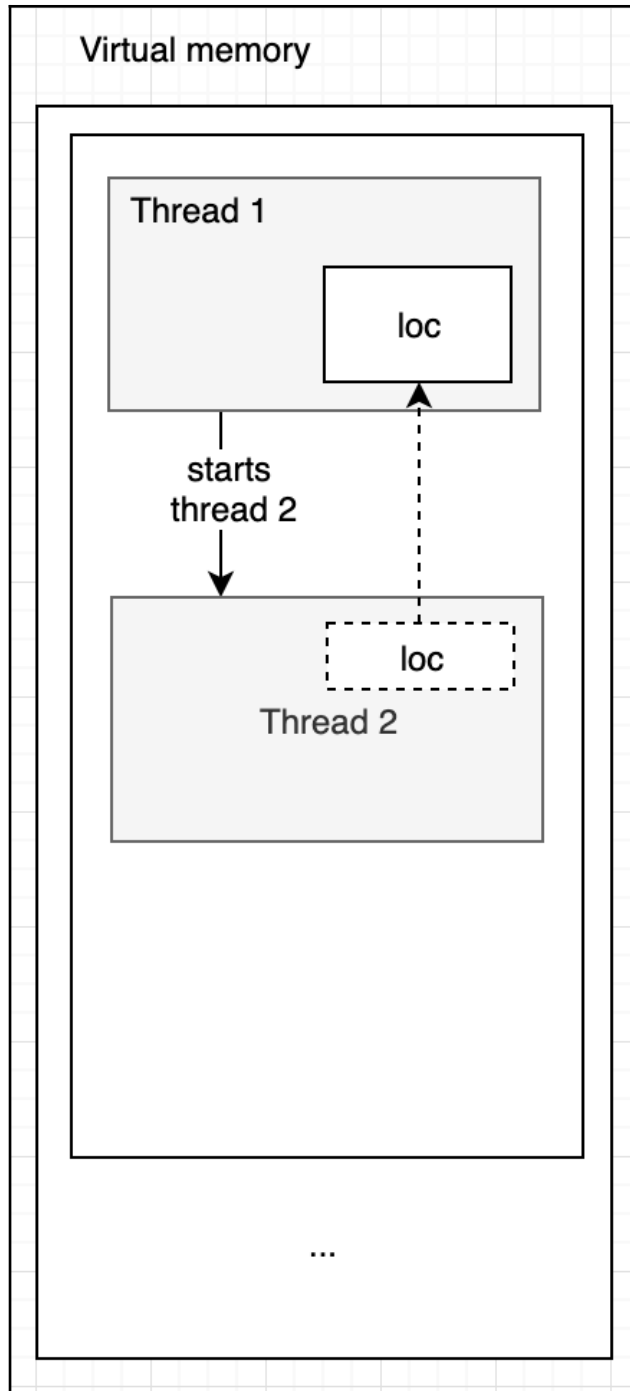


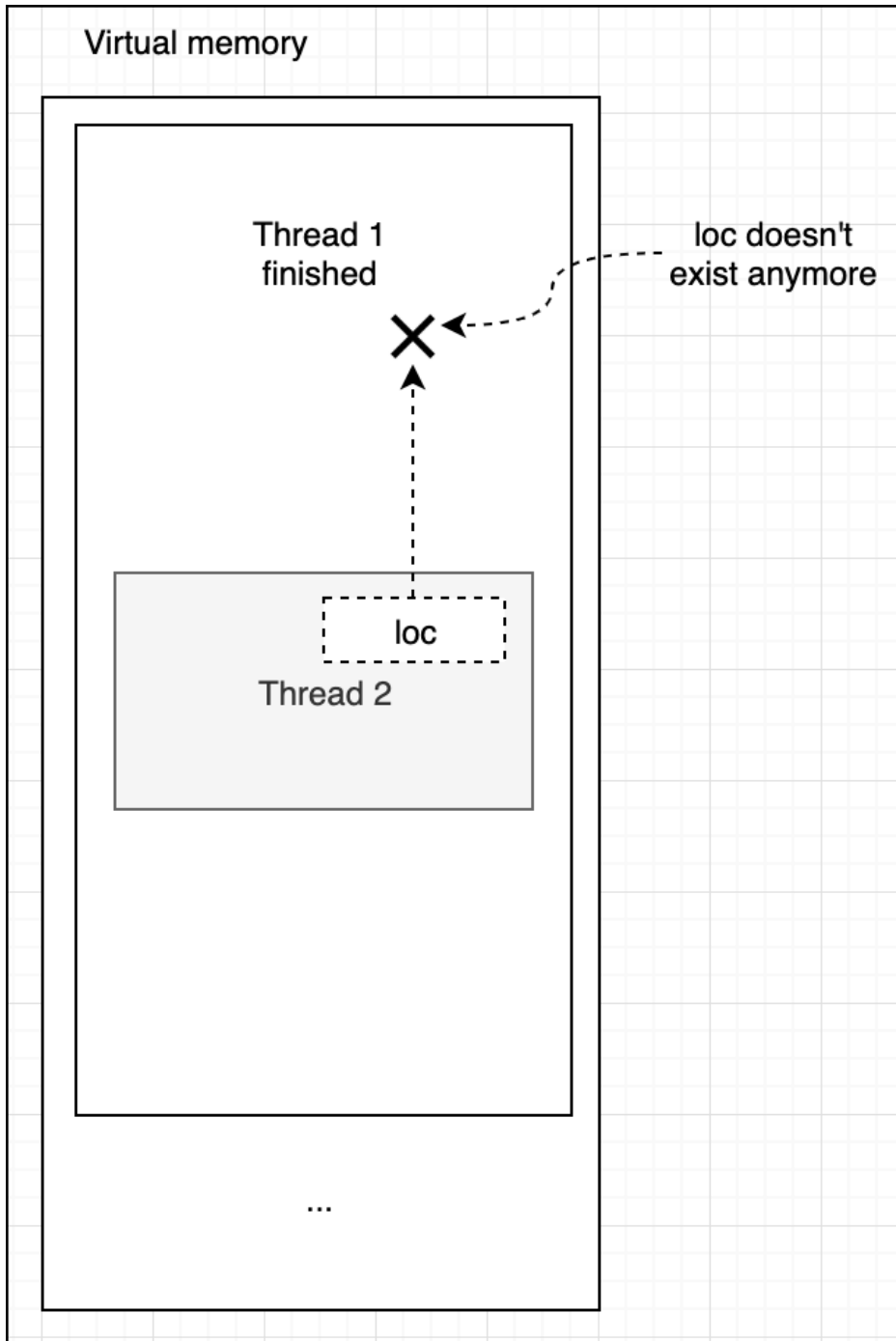








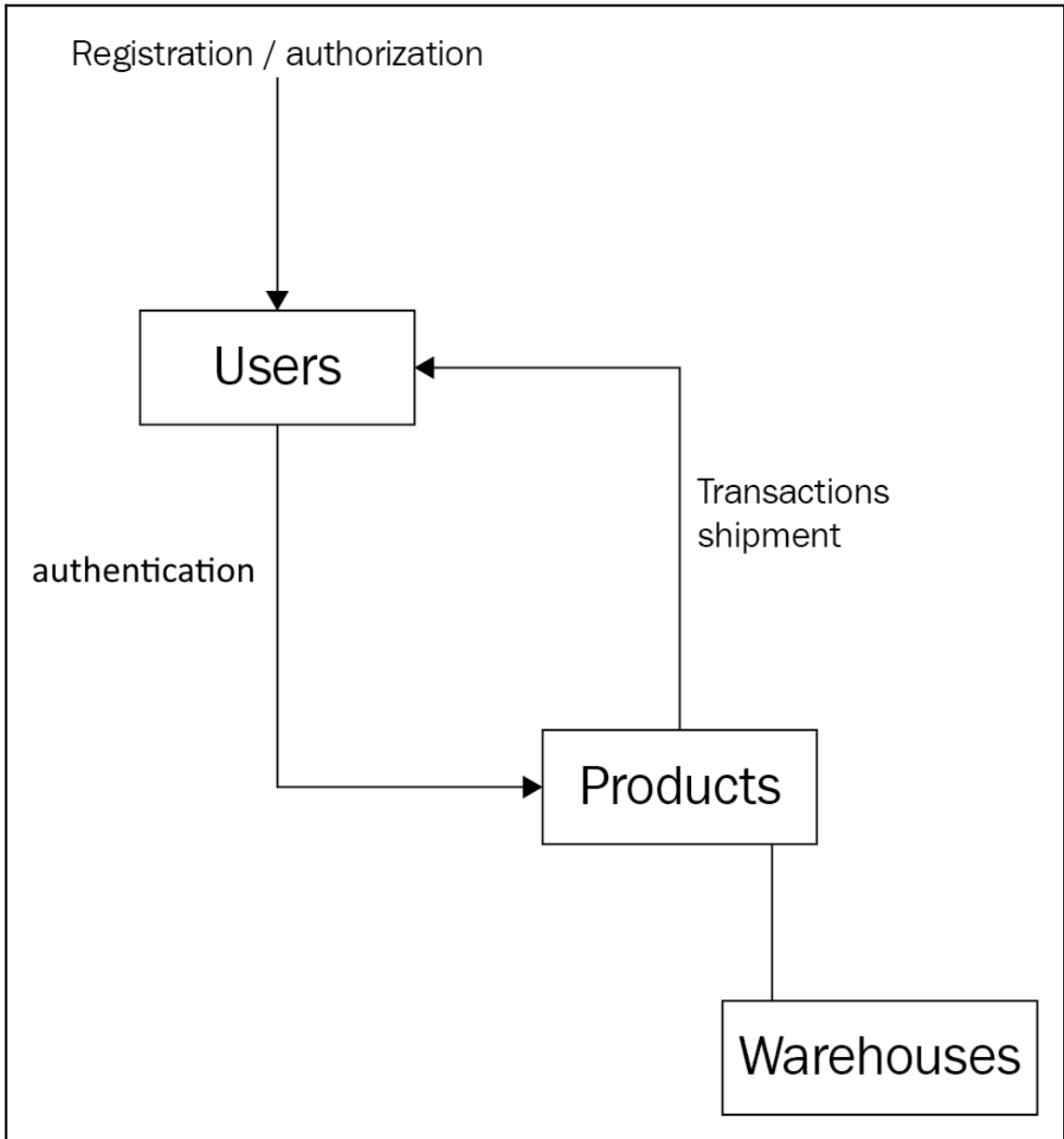





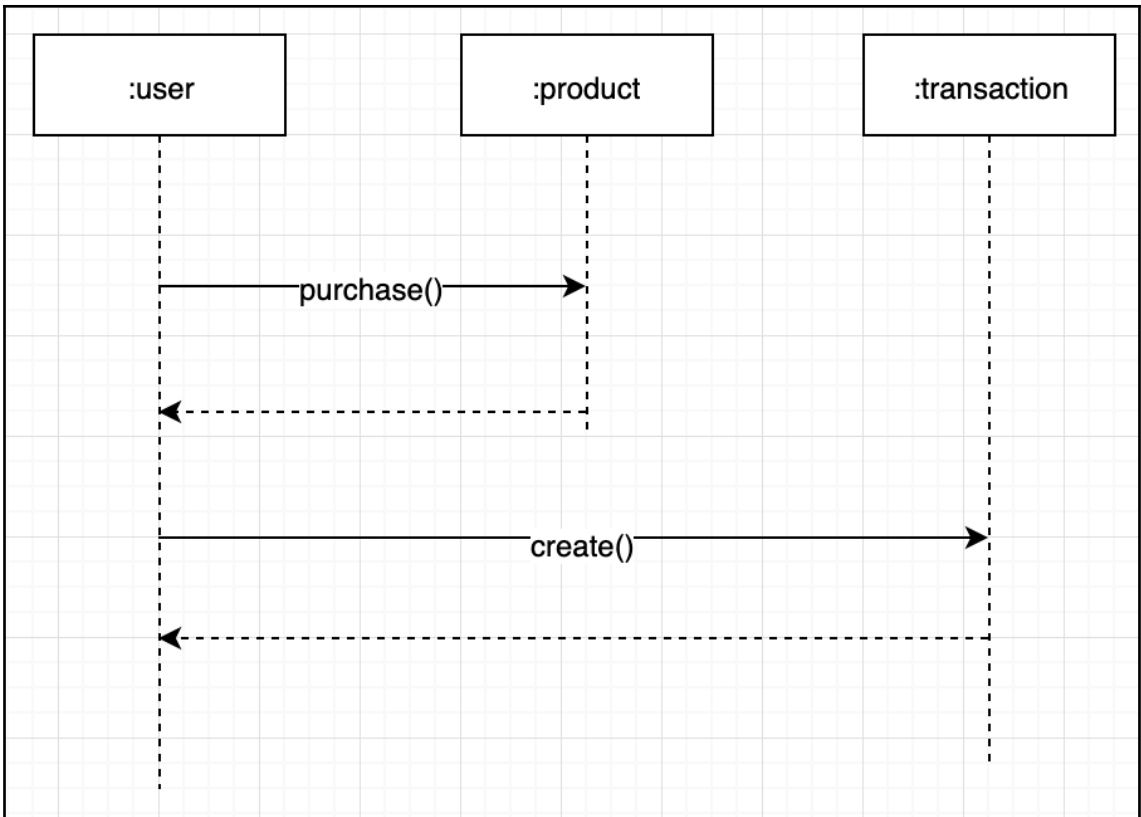
Chapter 9: Designing Concurrent Data Structures

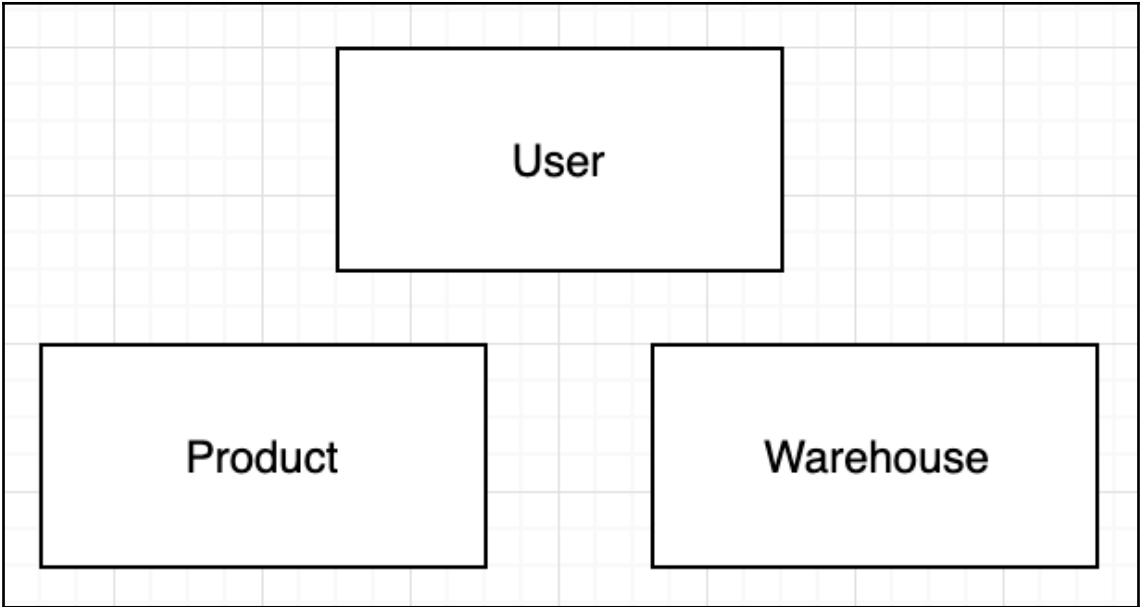
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Chapter 10: Designing World-Ready Applications

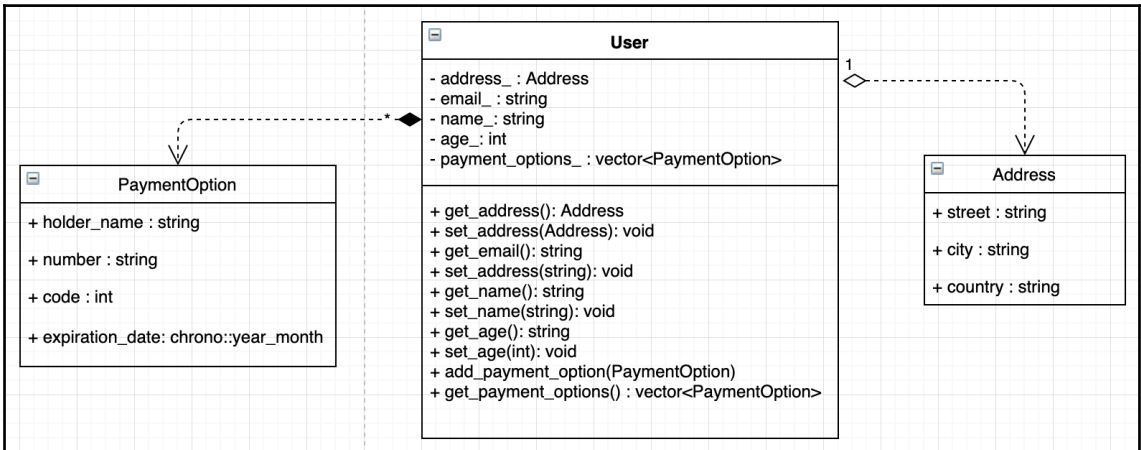
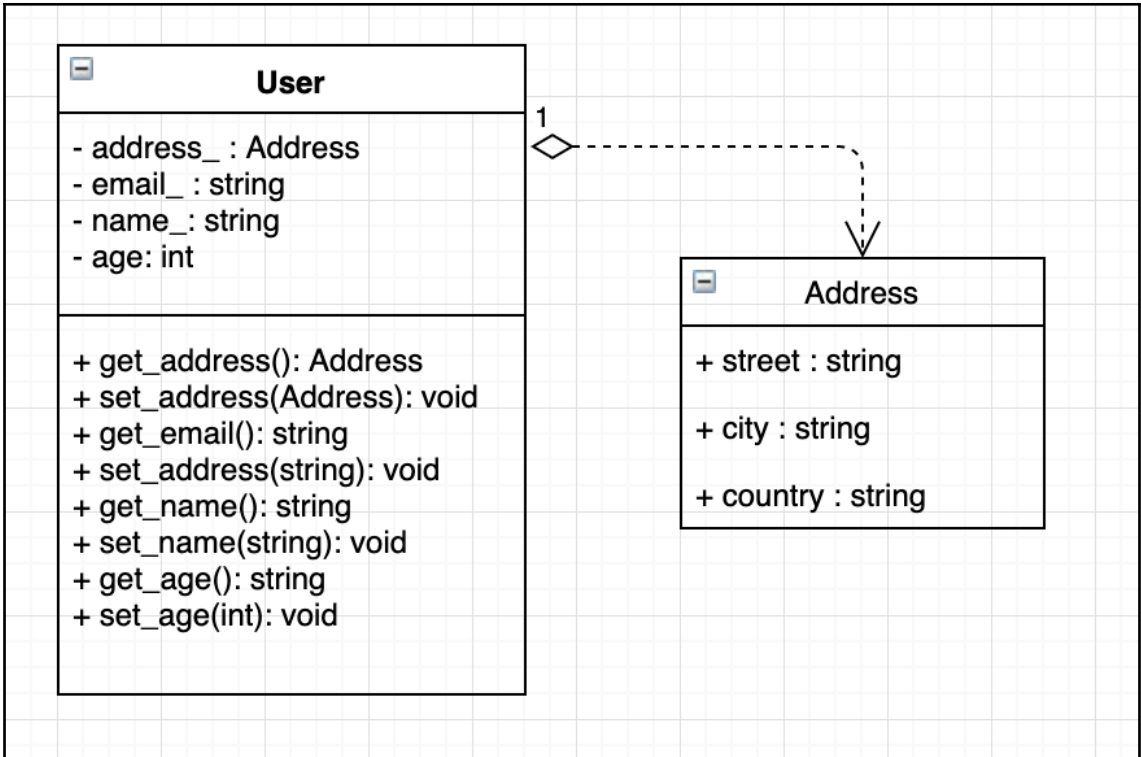


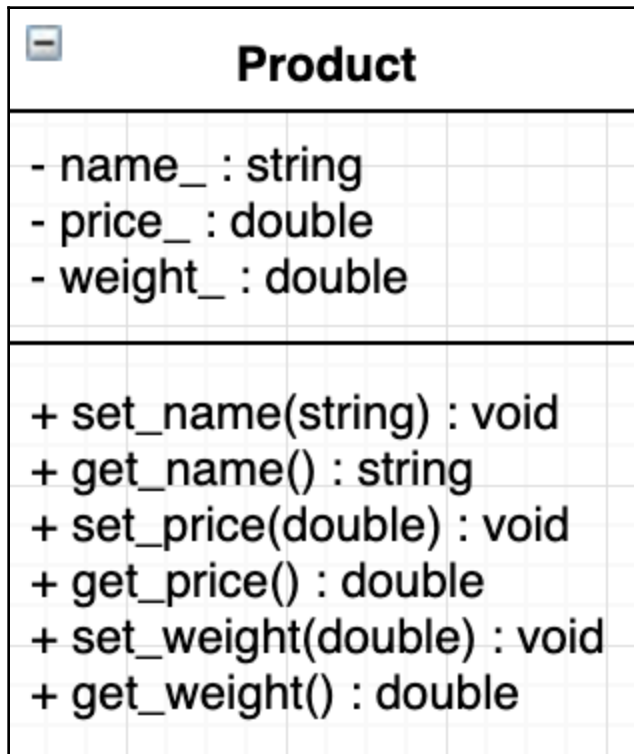
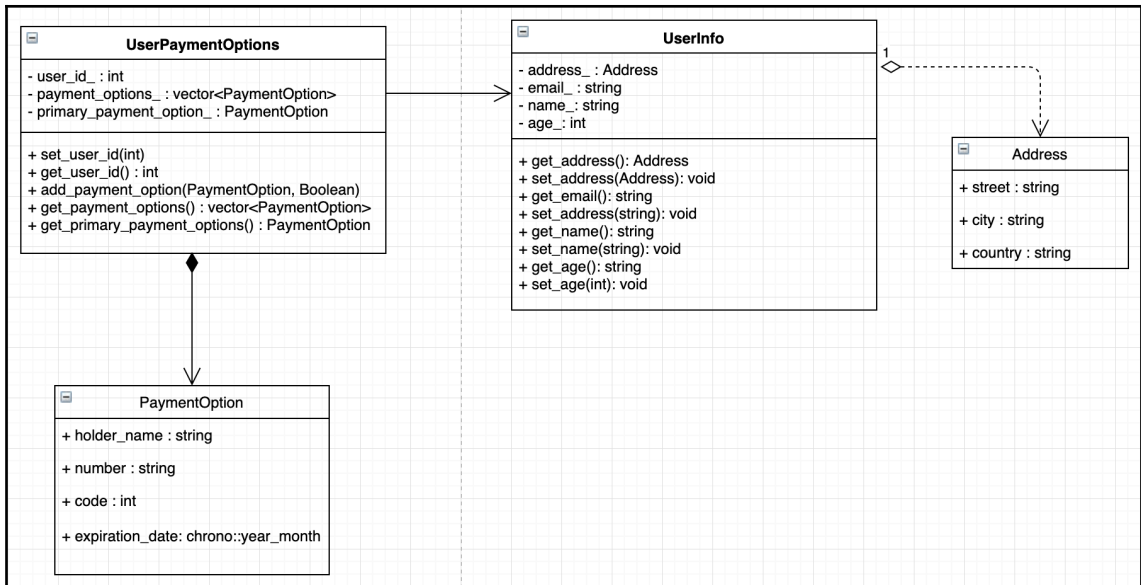
 User	
-	address_: string
-	email_: string
...	
+	get_address(): string
+	set_address(string): void
+	get_email(): string
+	set_email(string): void
...	

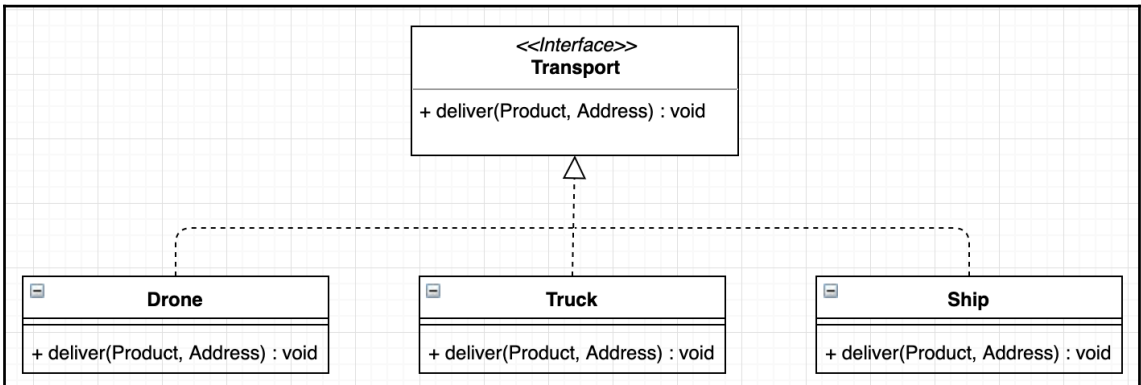
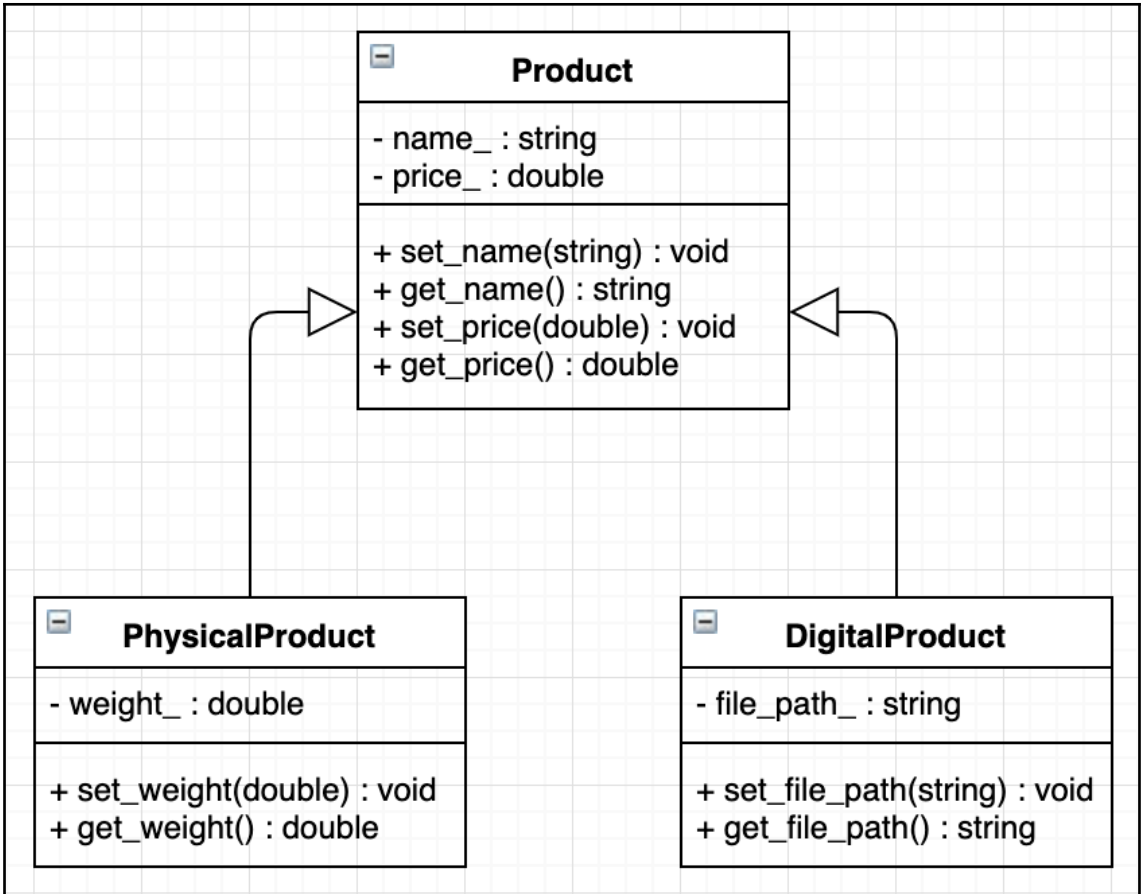


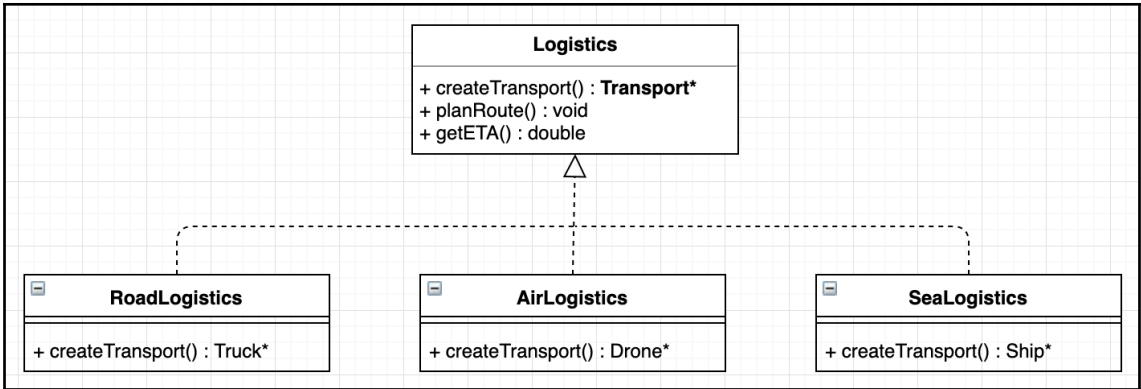


 User
<ul style="list-style-type: none">- address_ : Address- email_ : string- name_ : string- age: int
<ul style="list-style-type: none">+ get_address(): Address+ set_address(Address): void+ get_email(): string+ set_address(string): void+ get_name(): string+ set_name(string): void+ get_age(): string+ set_age(int): void

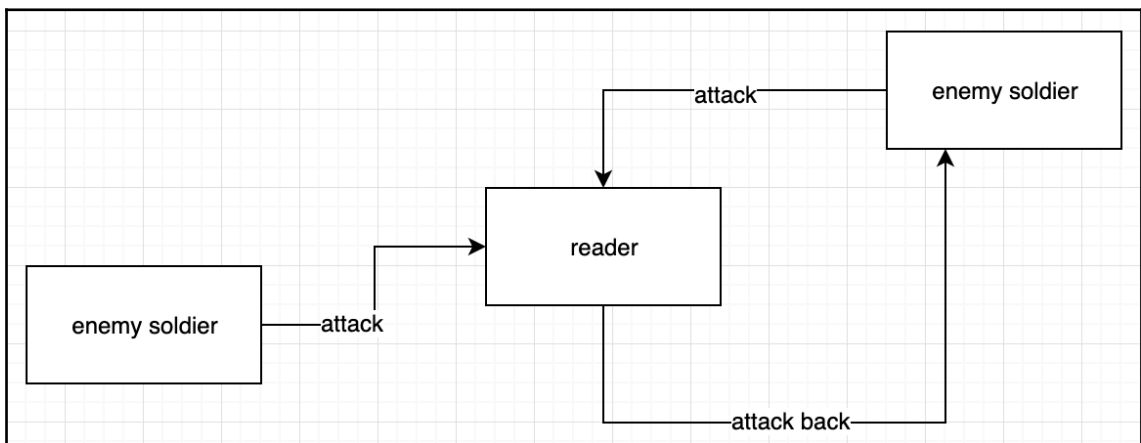
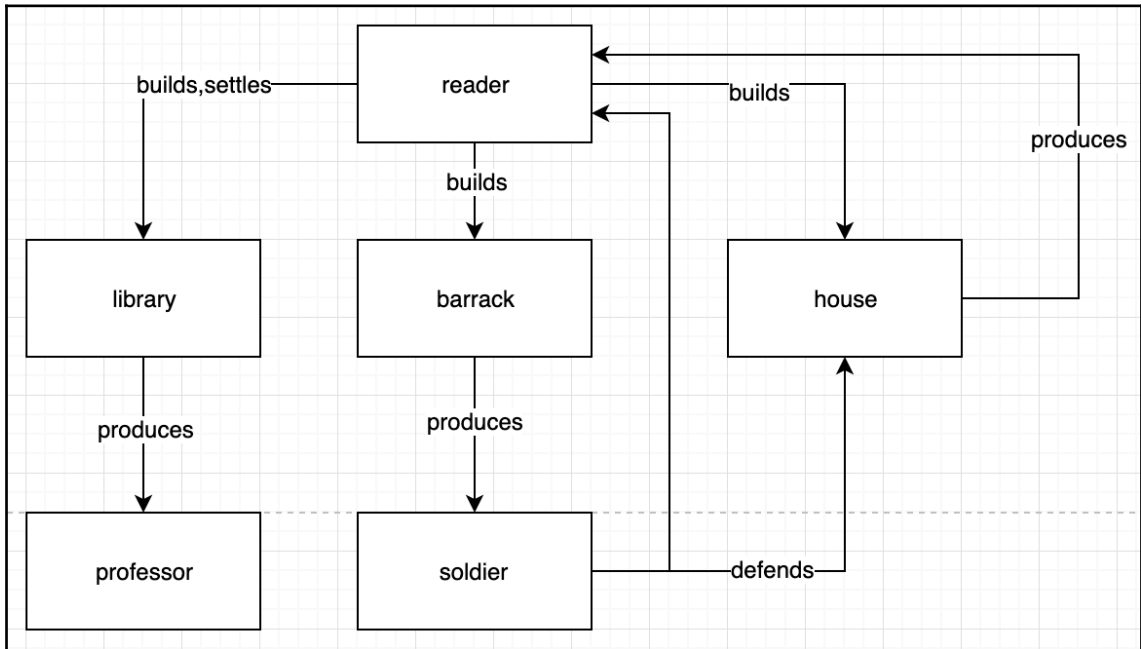


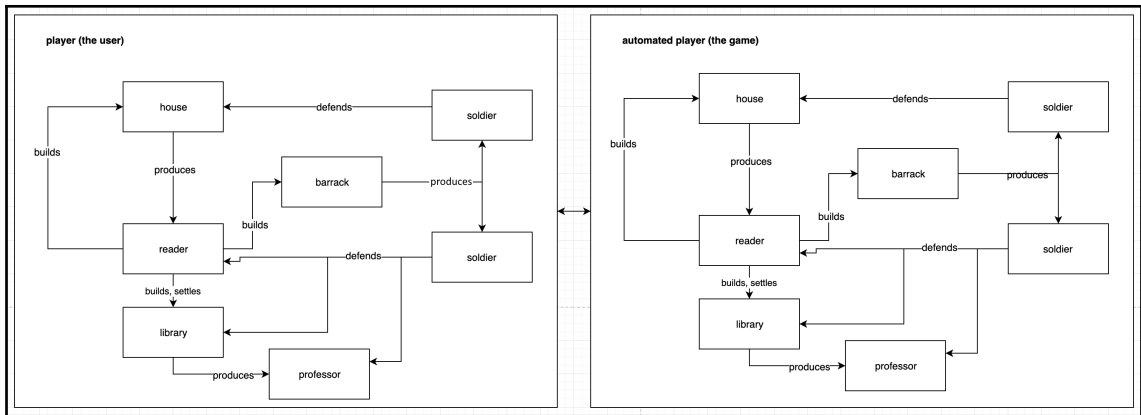





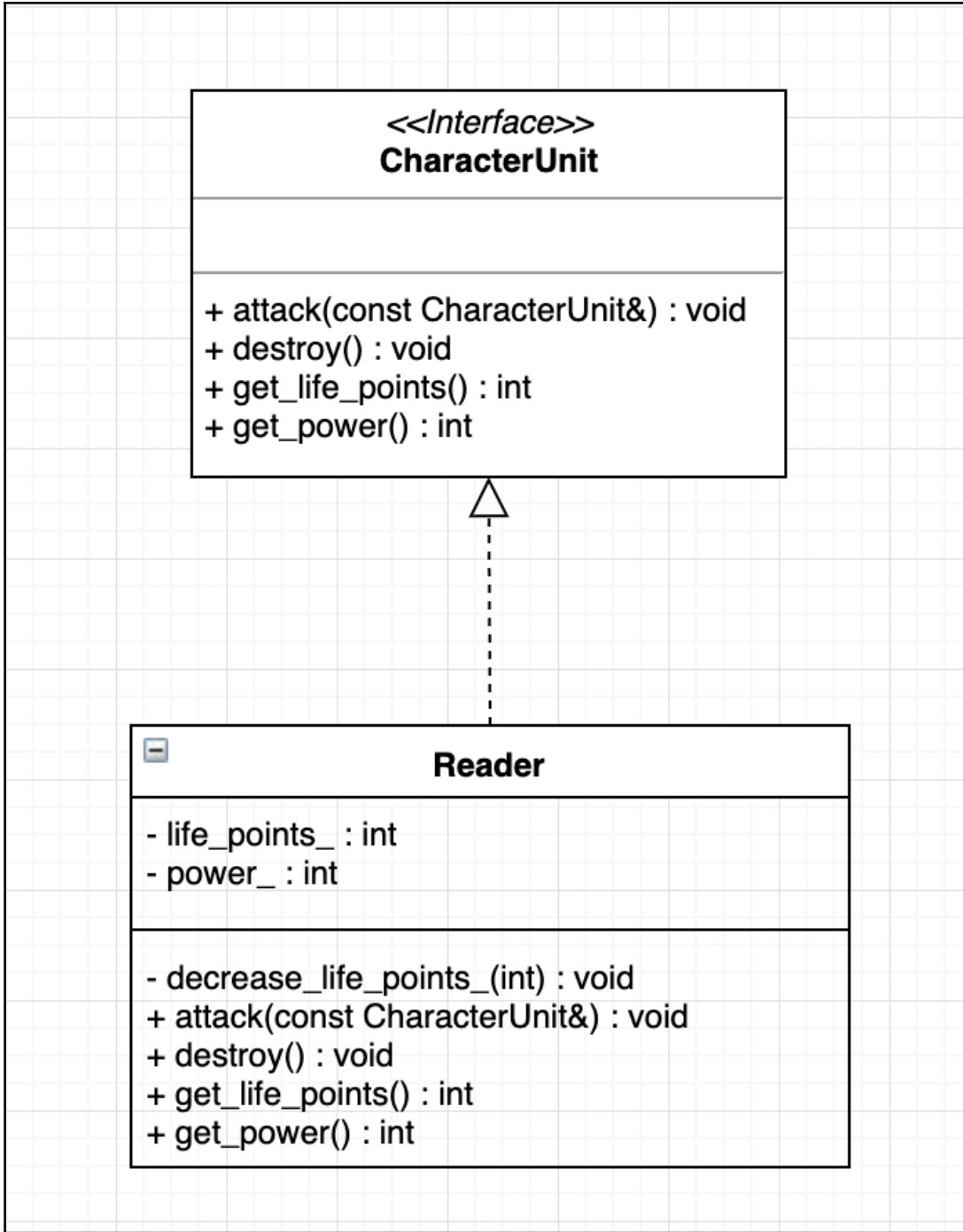


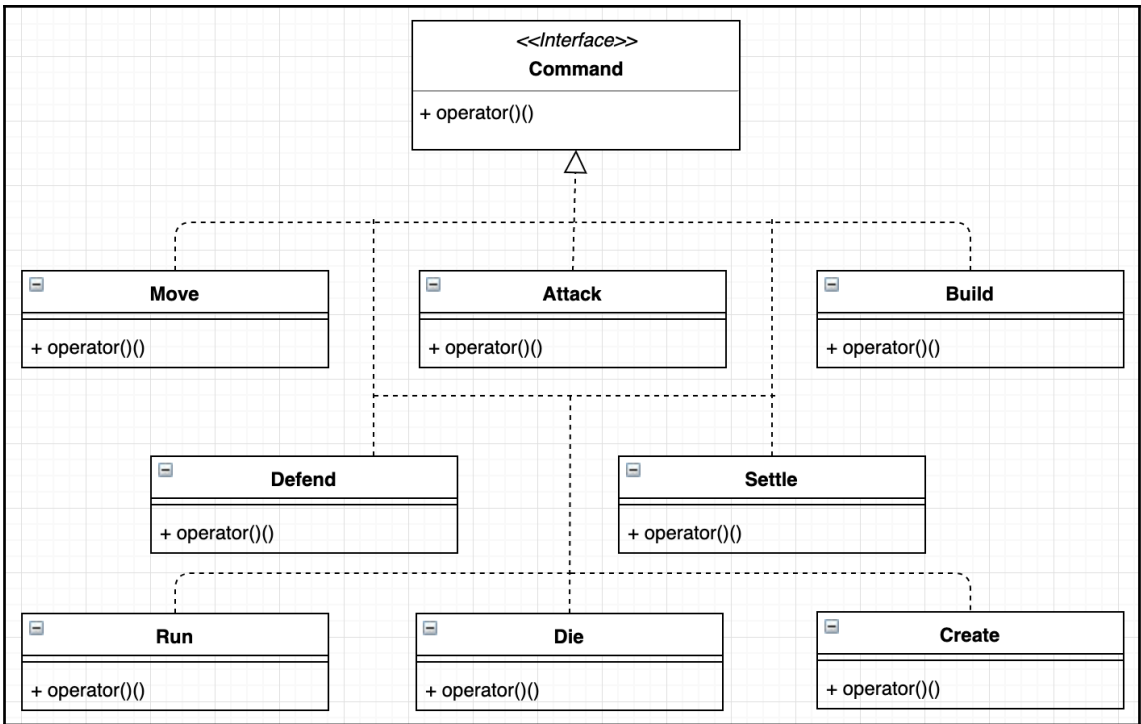
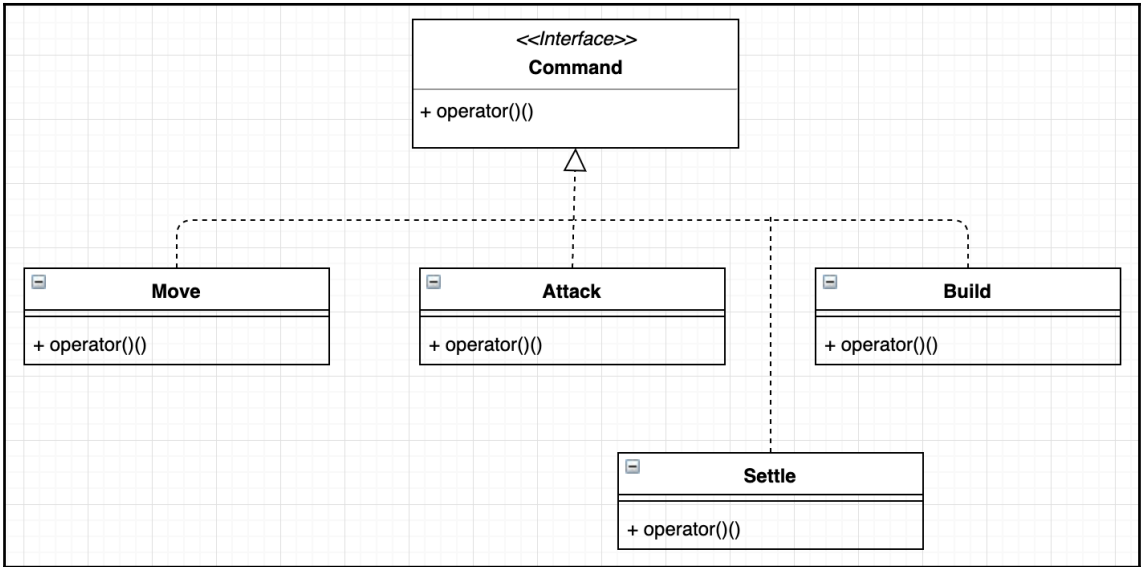
Chapter 11: Designing a Strategy Game Using Design Patterns

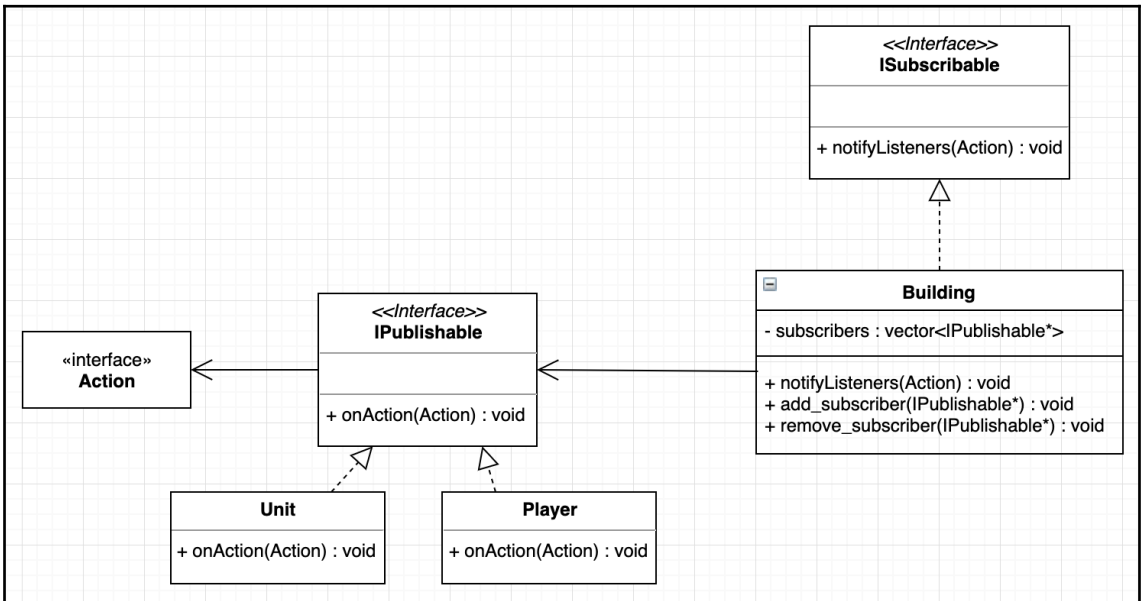
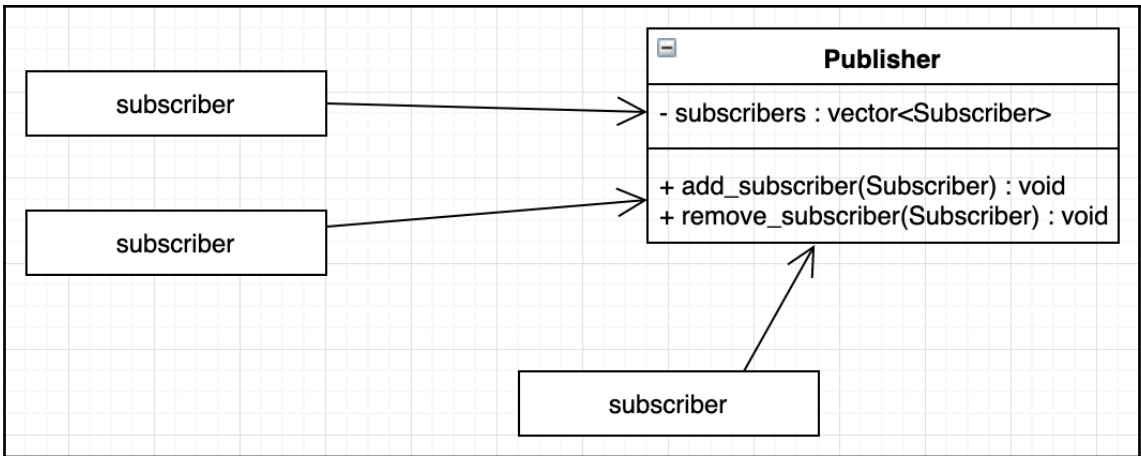


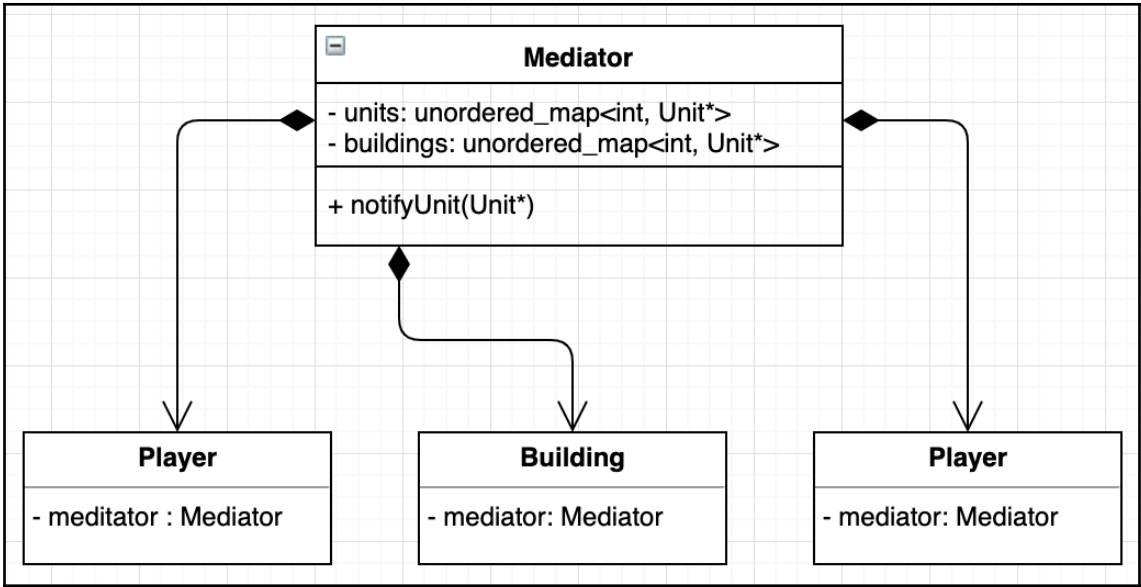


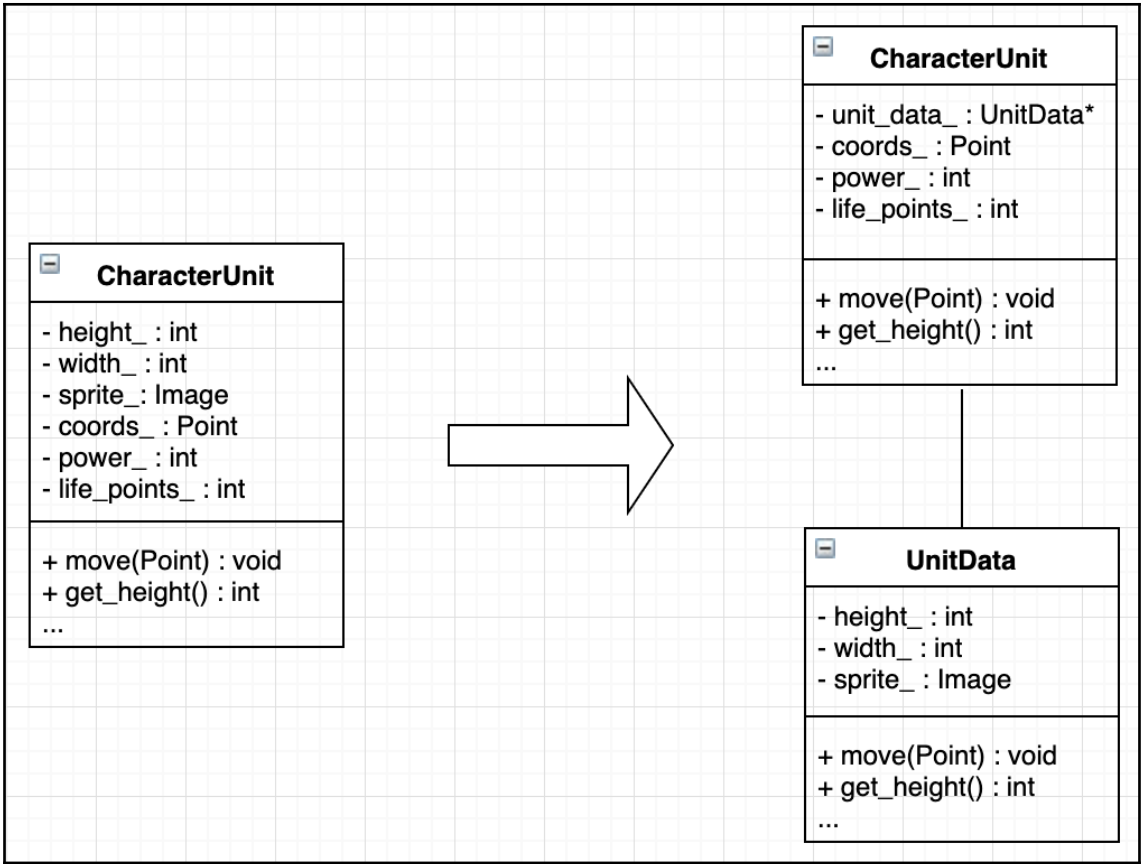
 <h2 style="margin: 0;">Reader</h2>
<ul style="list-style-type: none"> - life_points_ : int - power_ : int
<ul style="list-style-type: none"> - decrease_life_points_(int) : void + attack(const CharacterUnit&) : void + destroy() : void + get_life_points() : int + get_power() : int

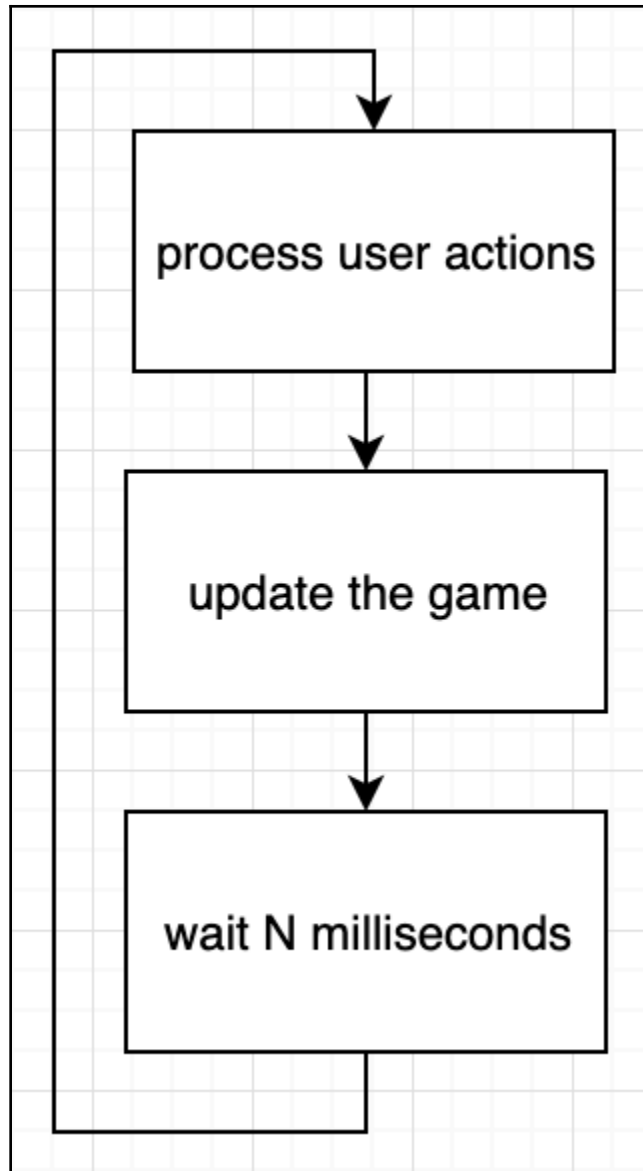




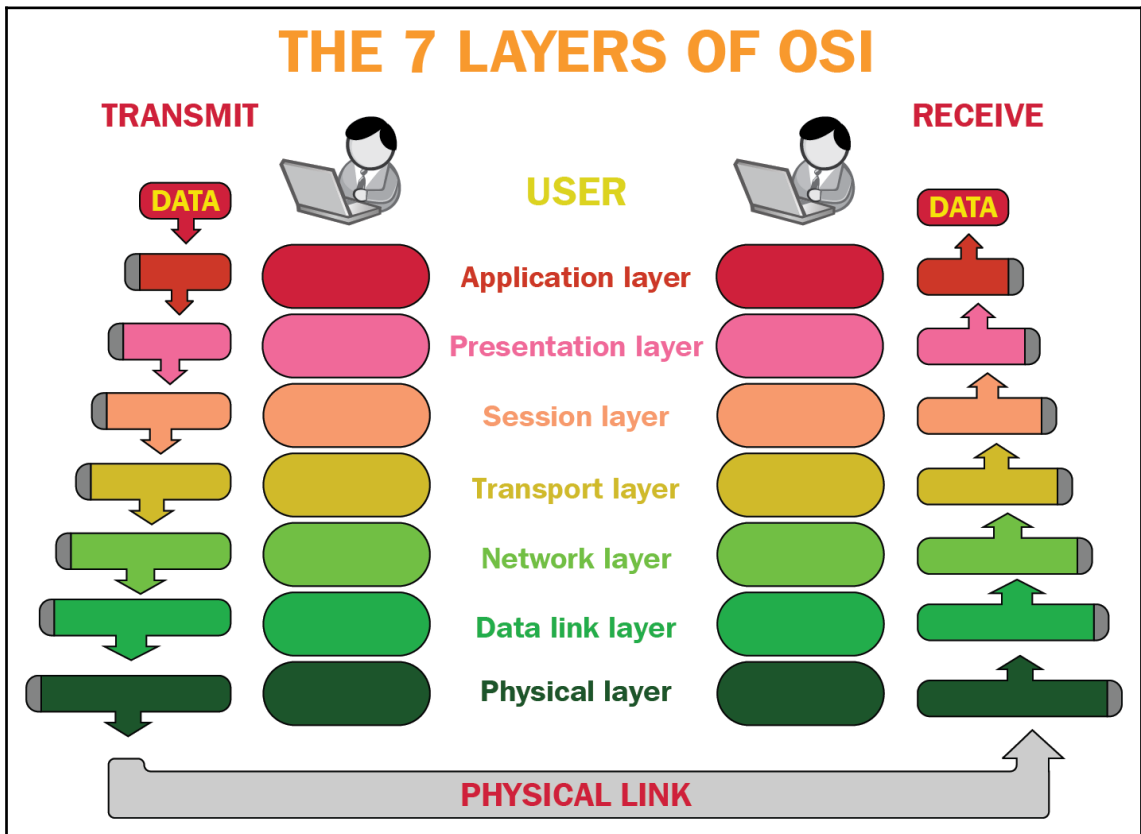


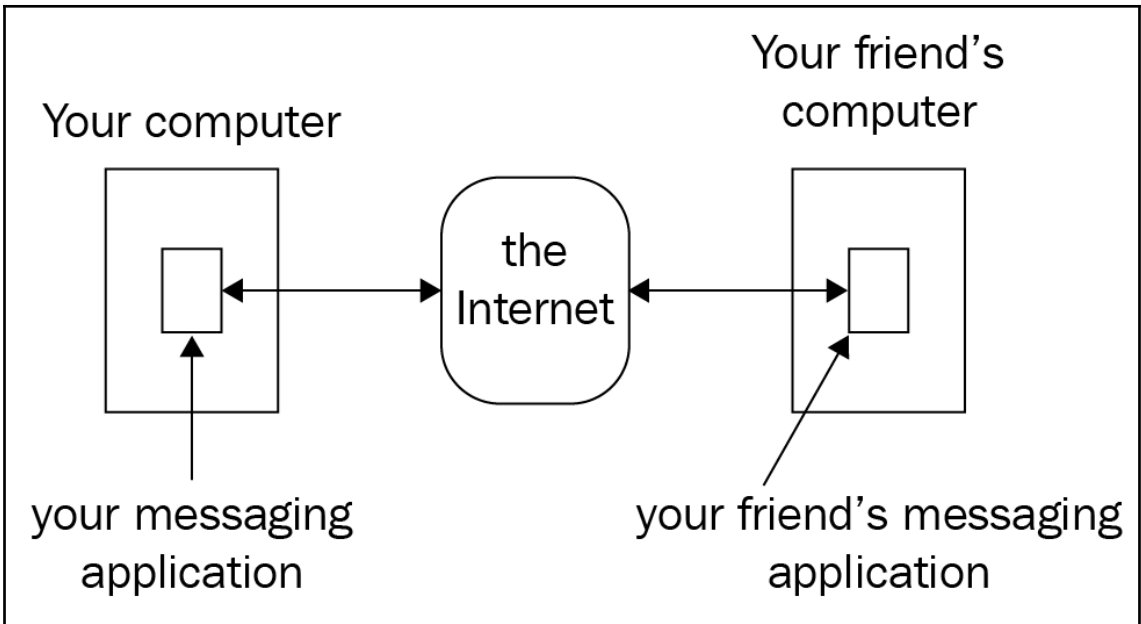


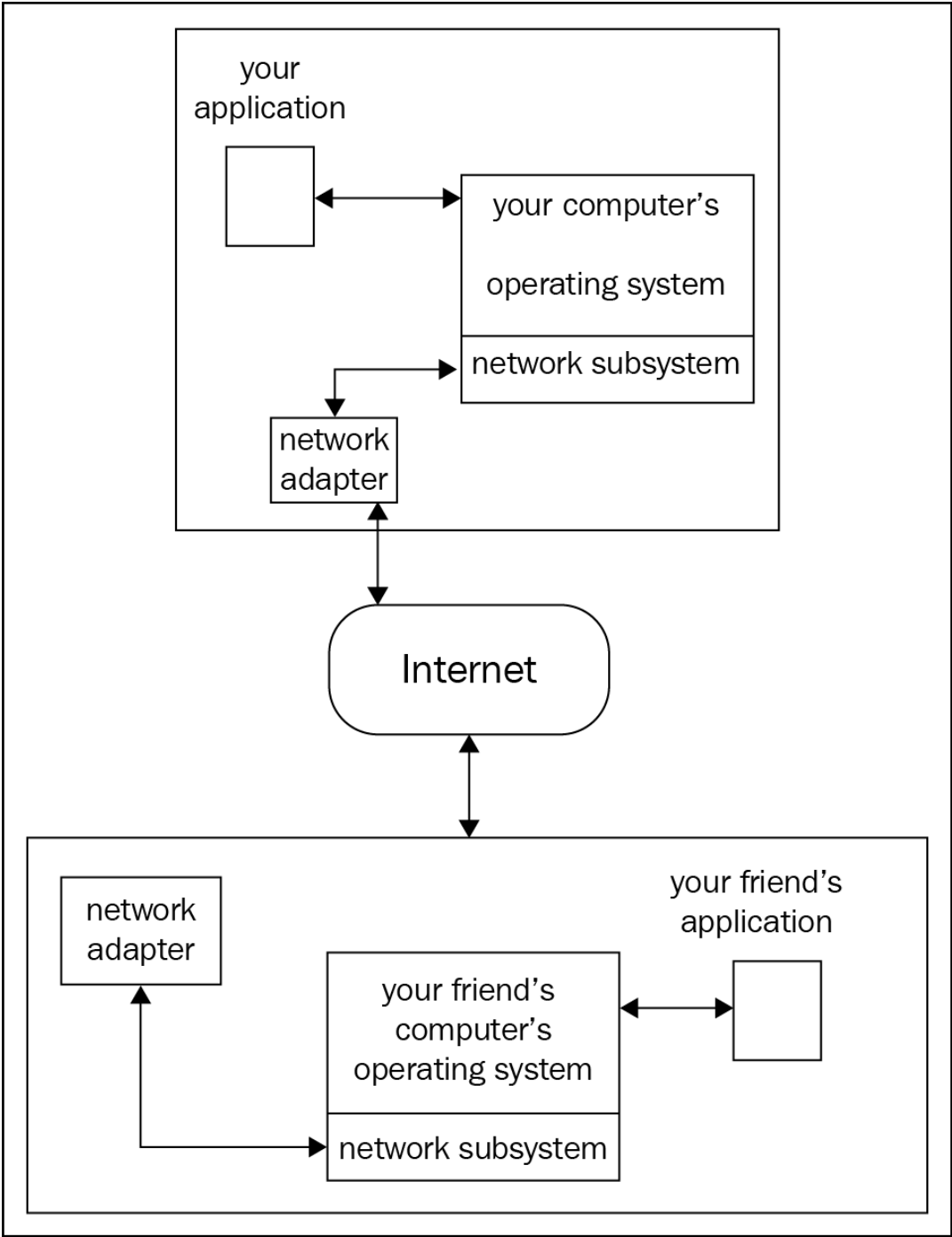


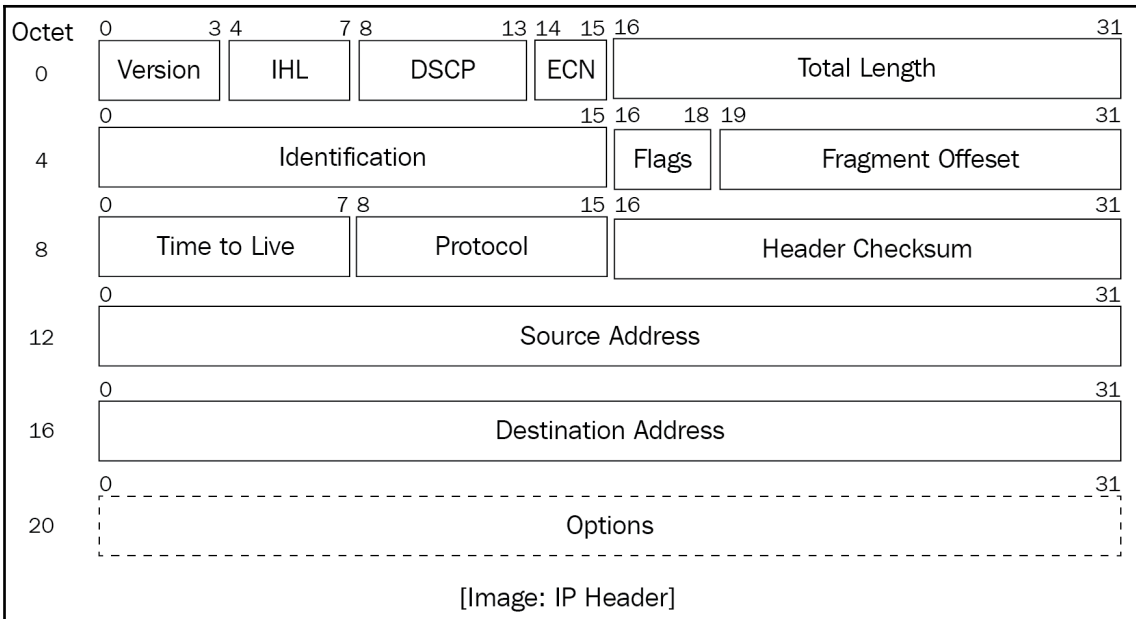


Chapter 12: Networking and Security

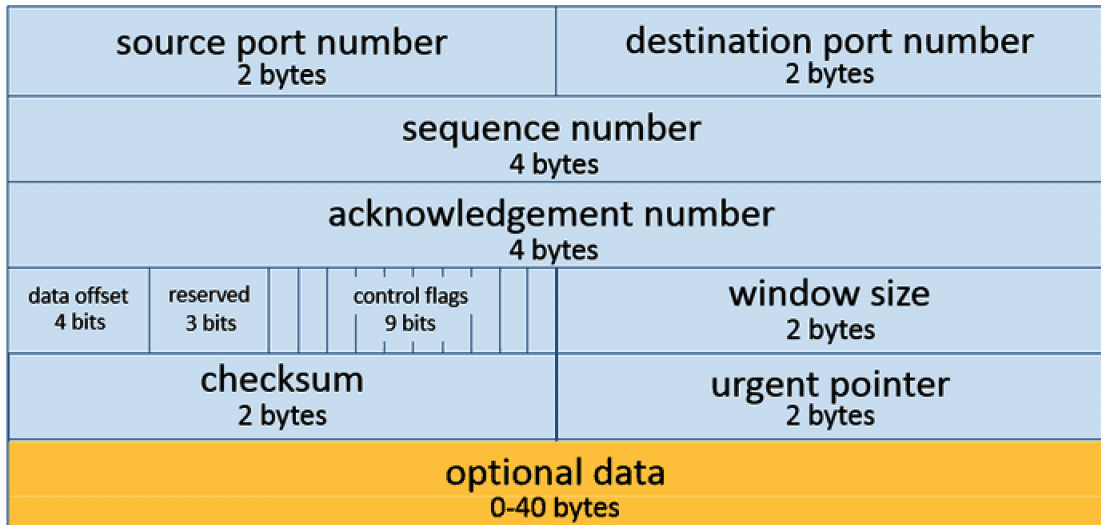


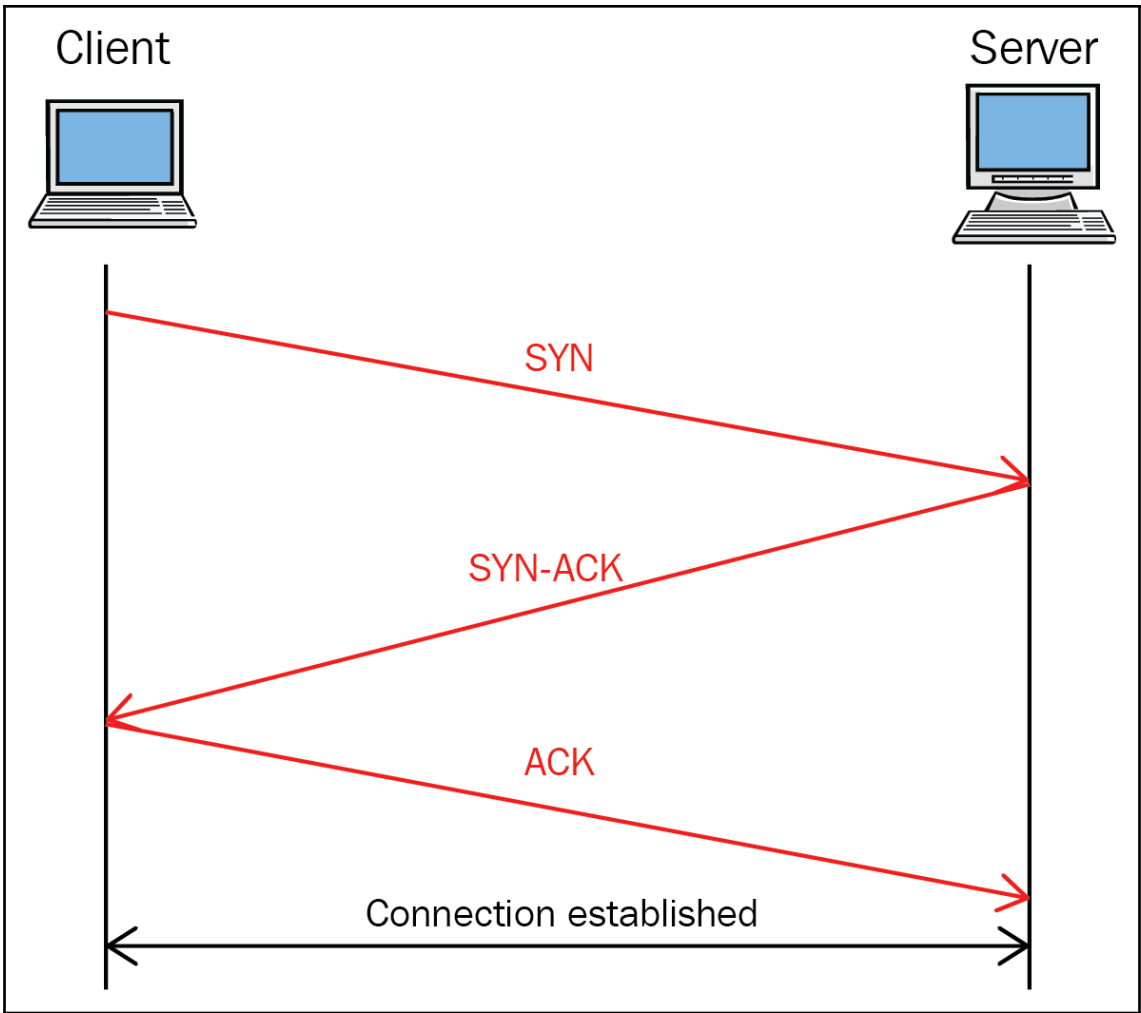


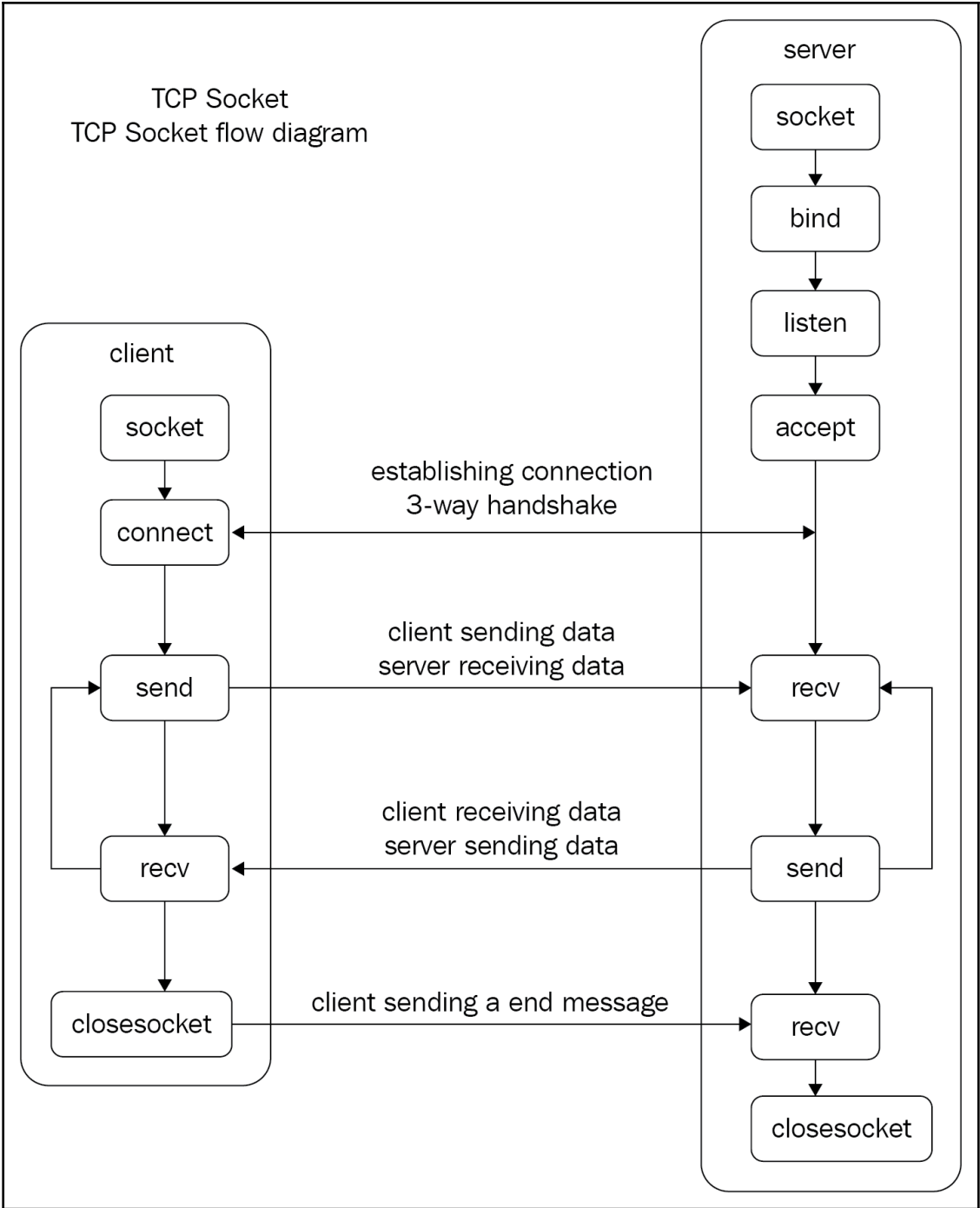


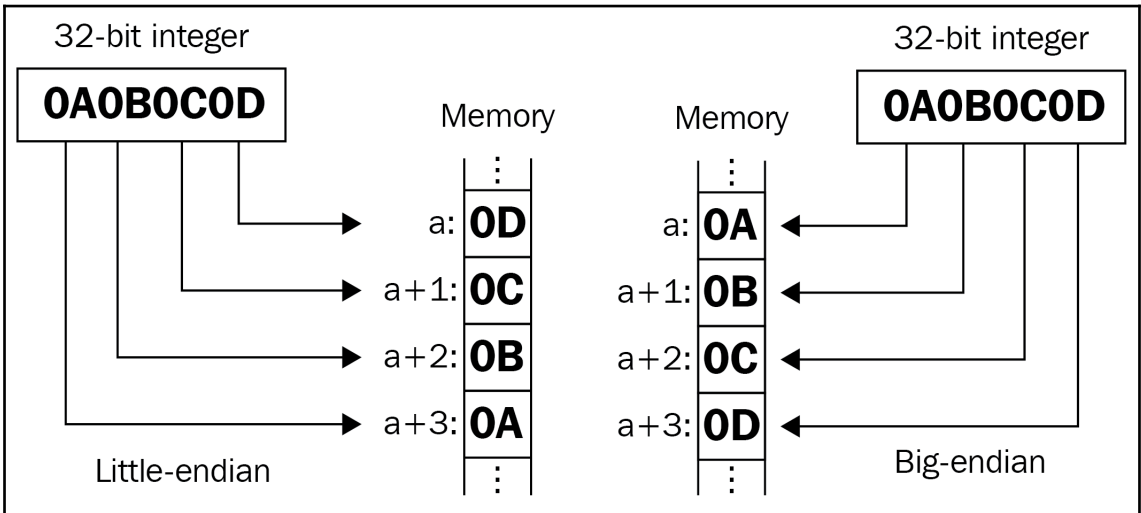
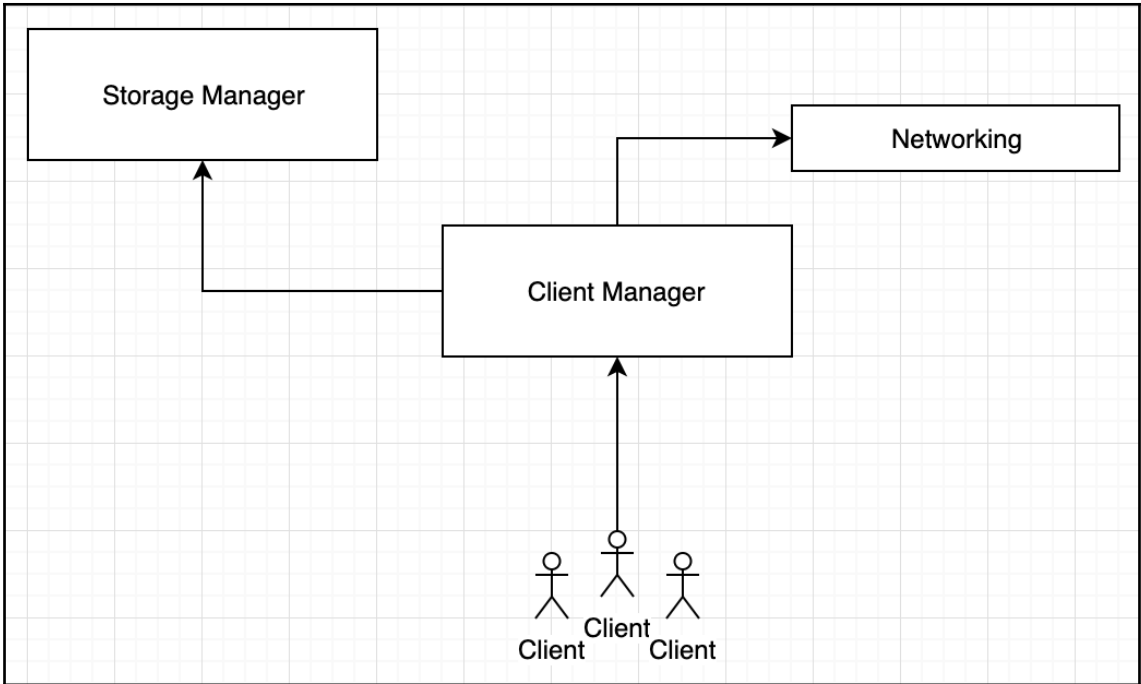


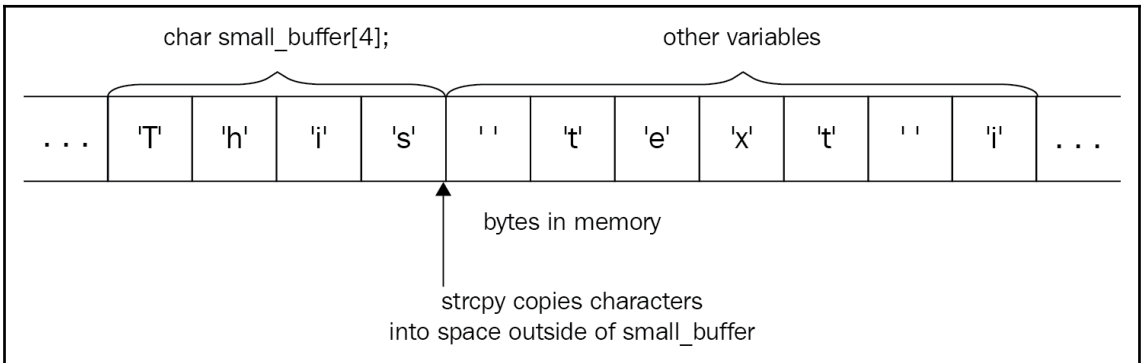
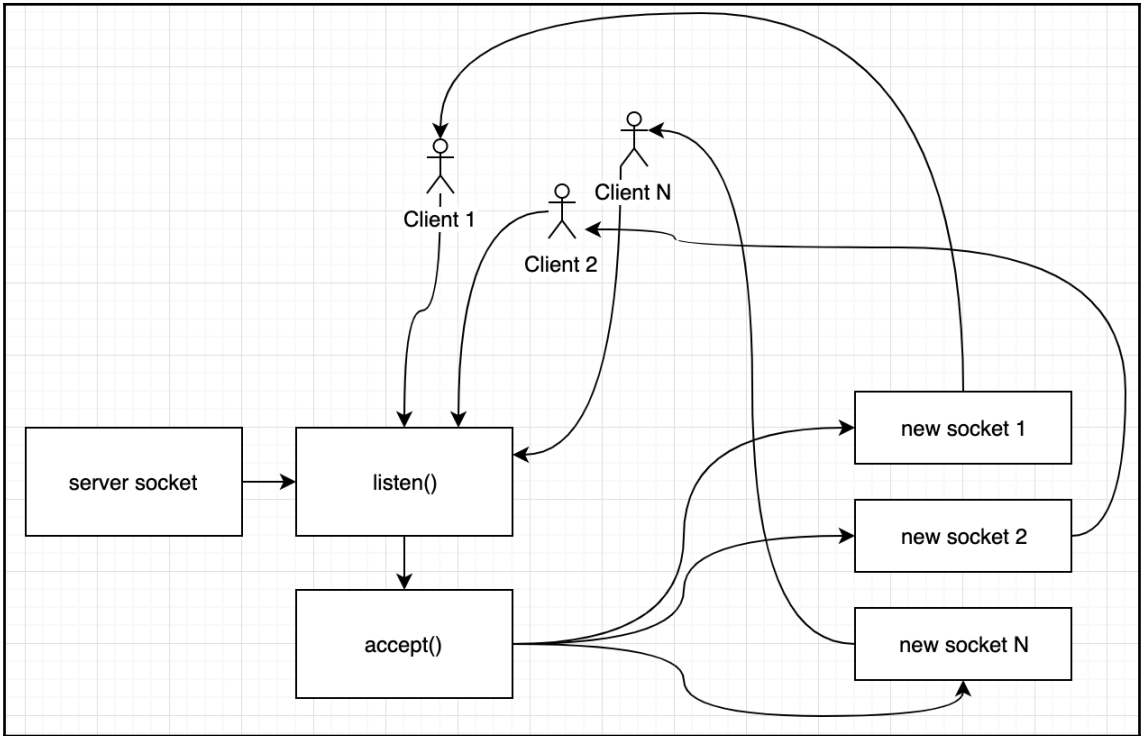
Transmission Control Protocol (TCP) Header 20-60 bytes



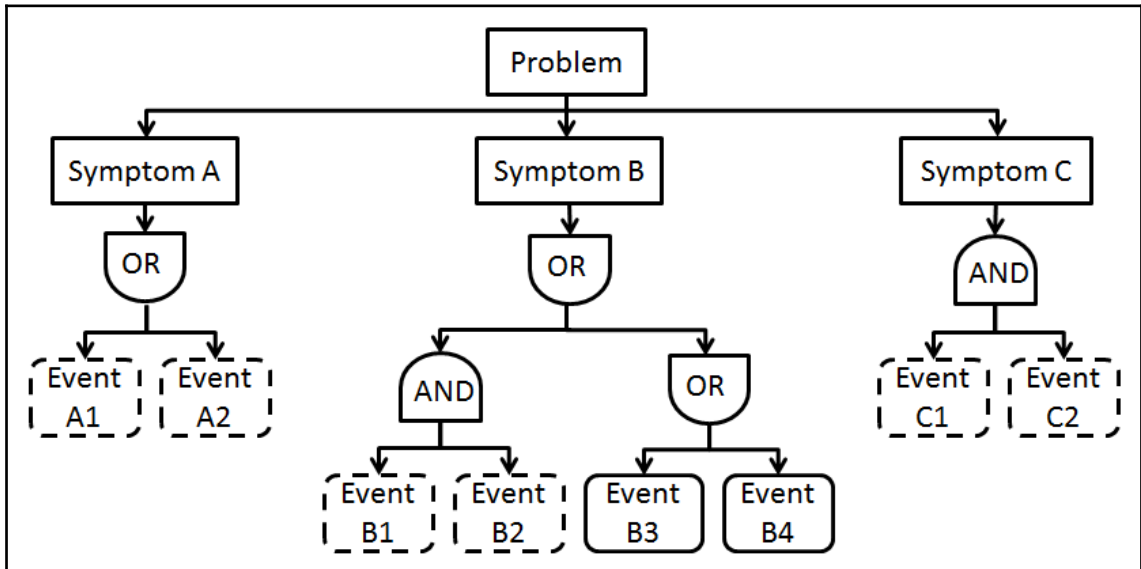


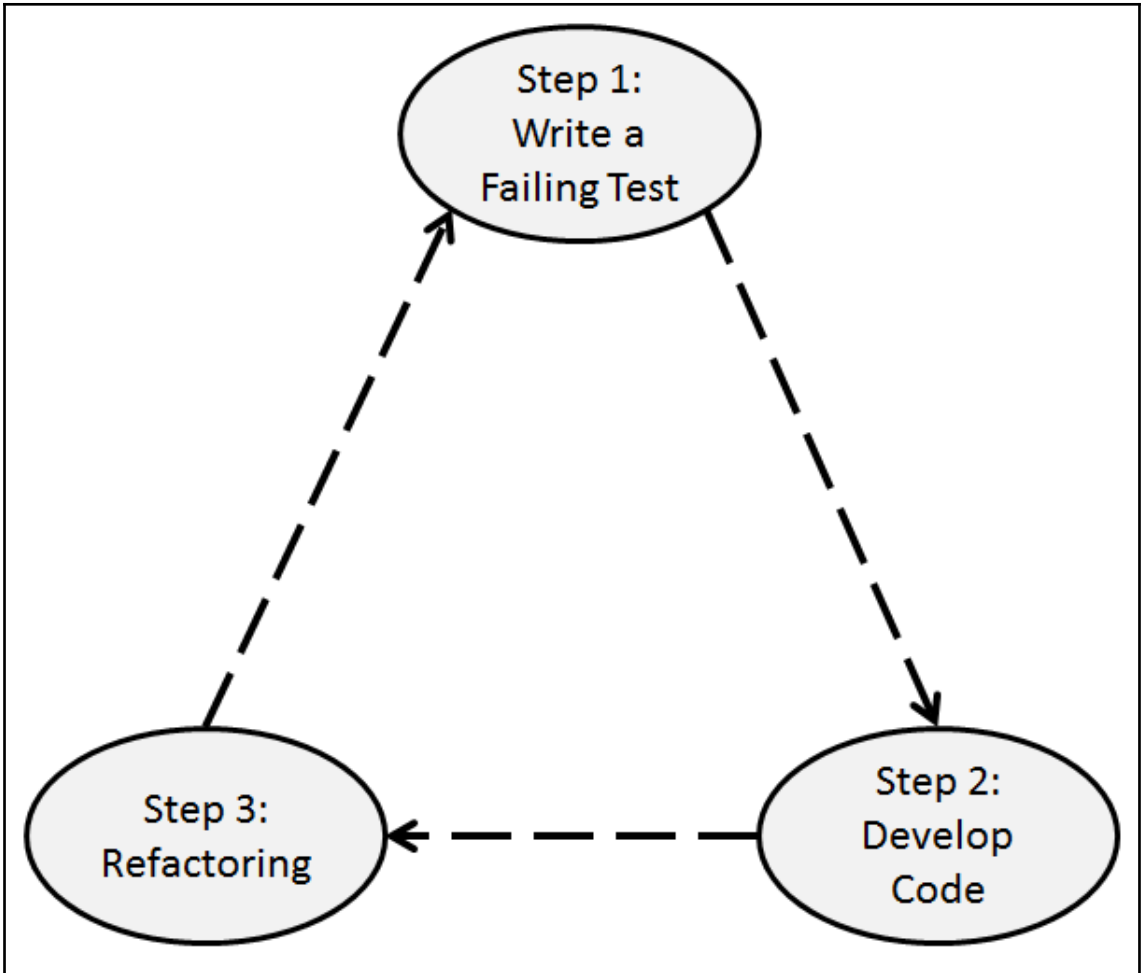


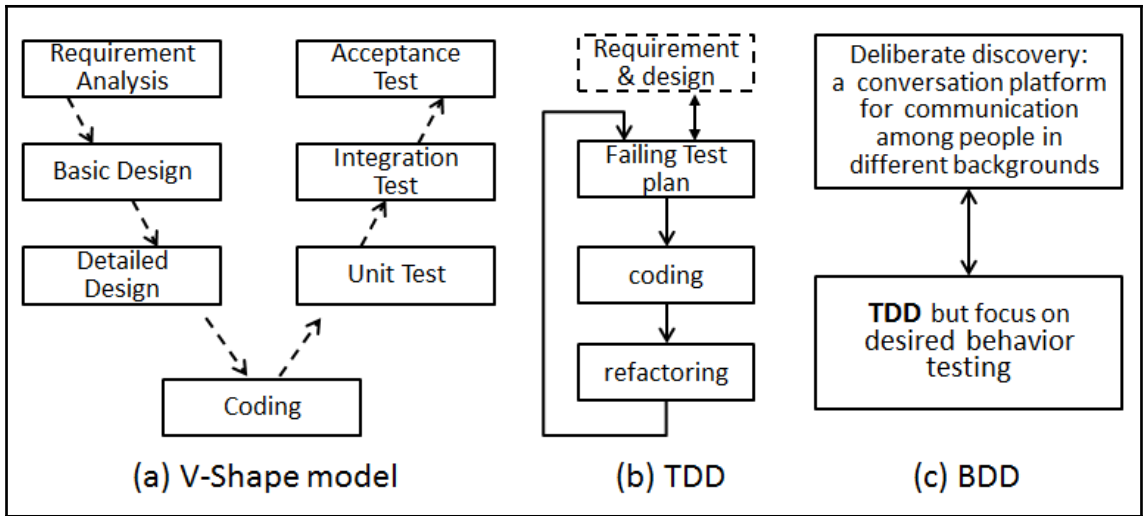




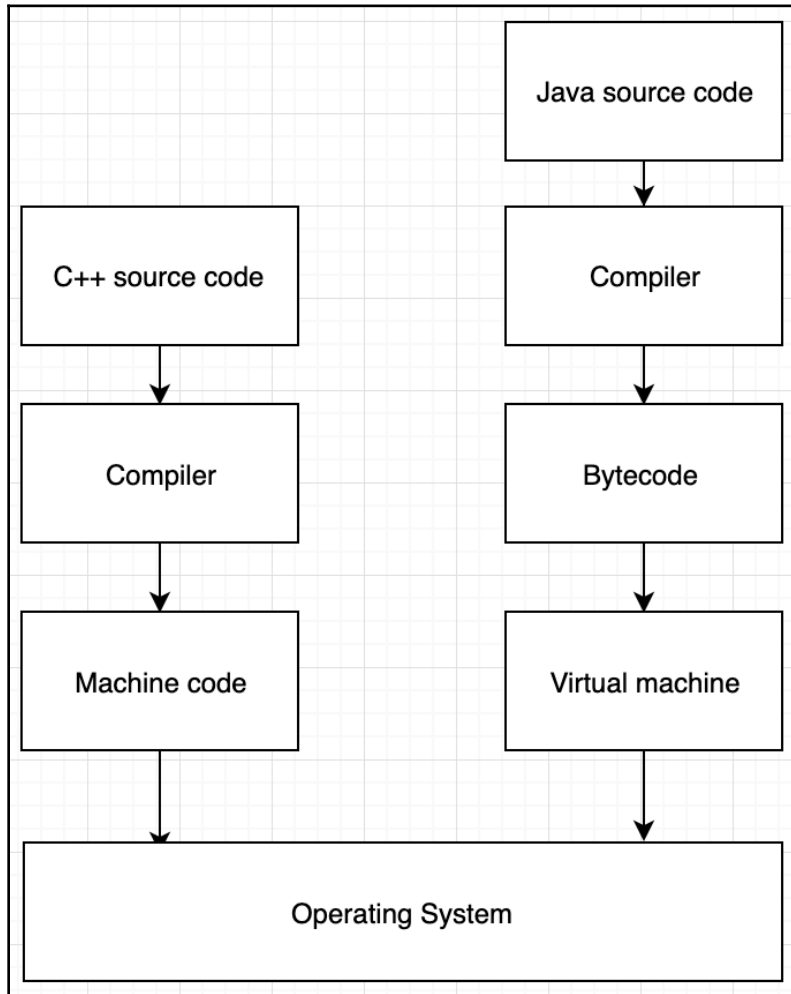
Chapter 13: Debugging and Testing

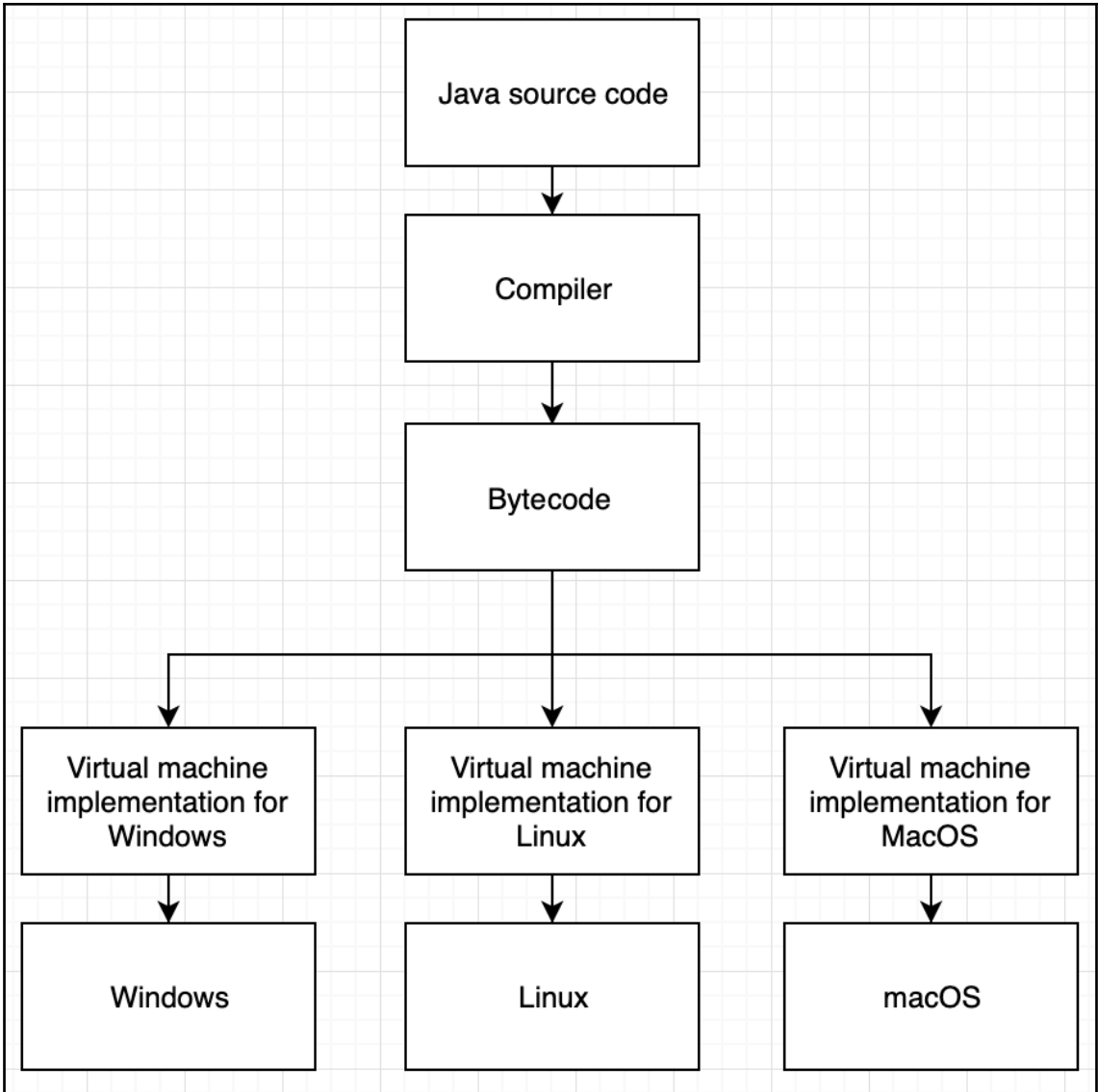


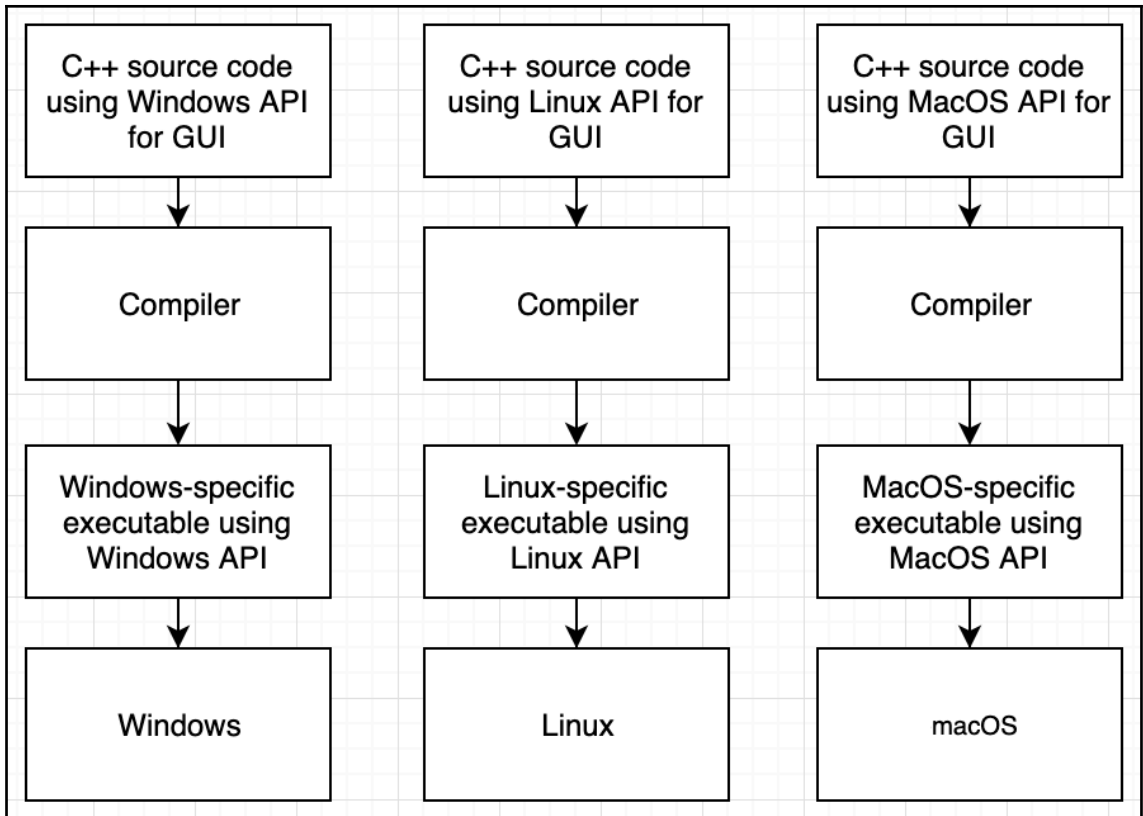


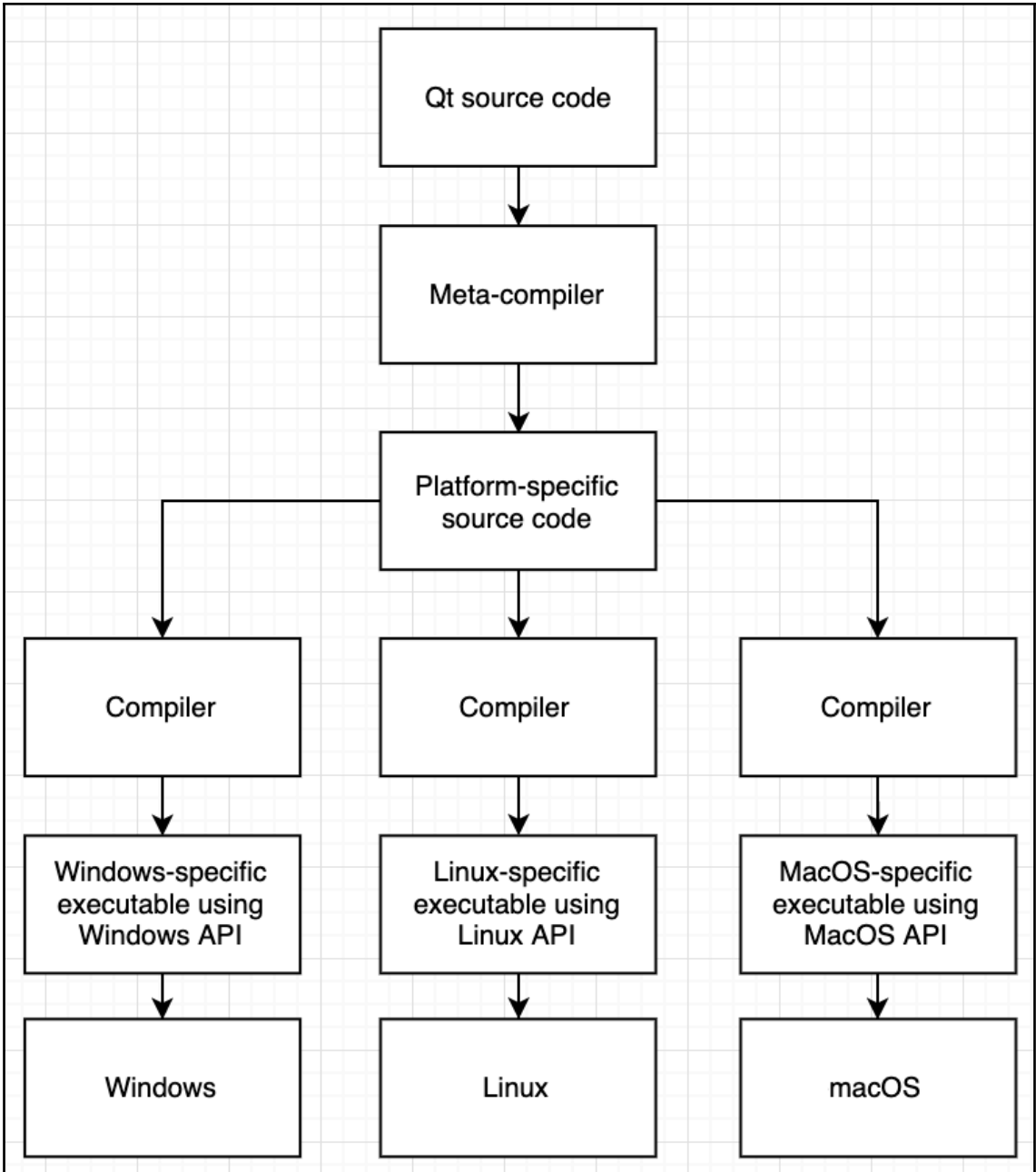


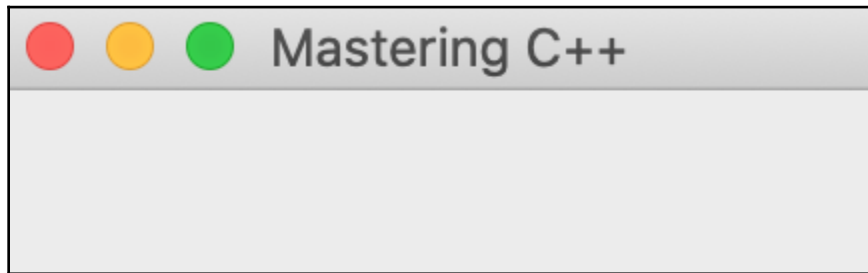
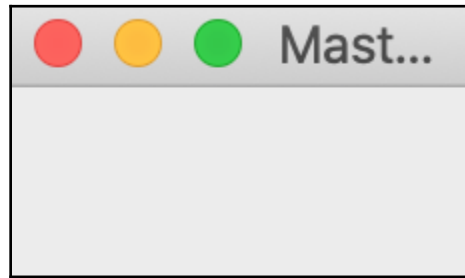
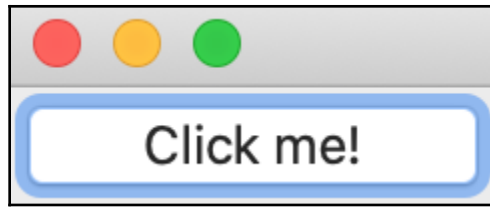
Chapter 14: Graphical User Interface with Qt

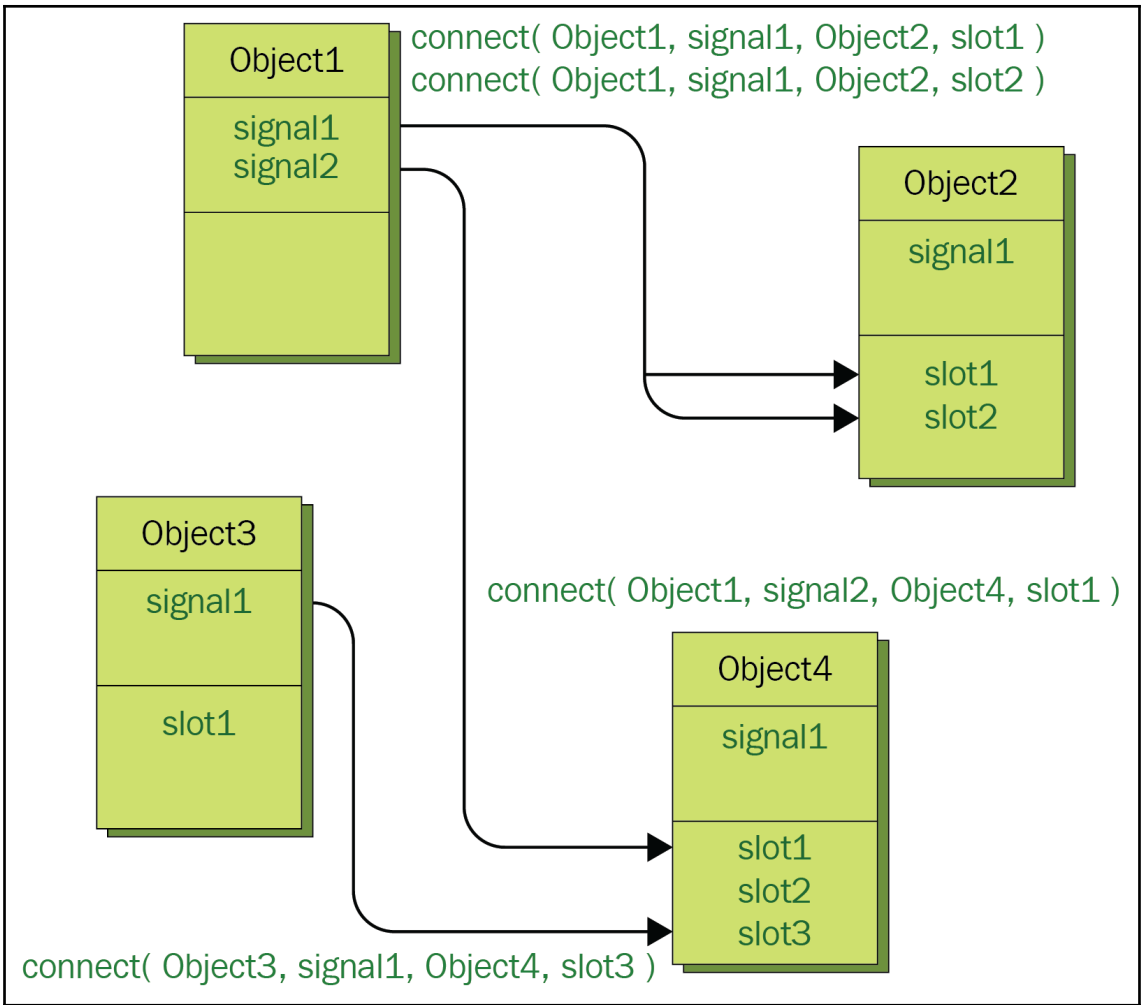


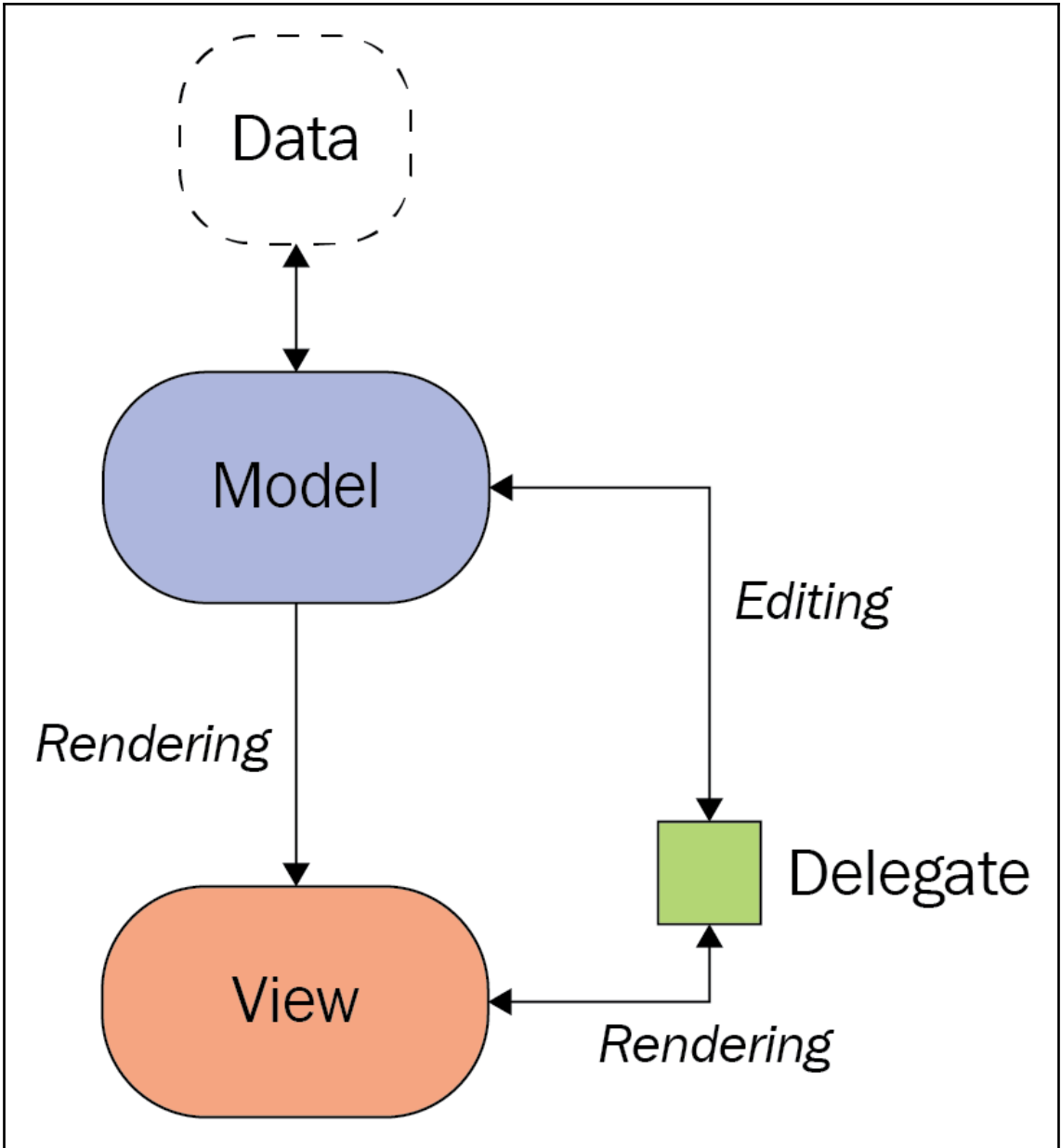


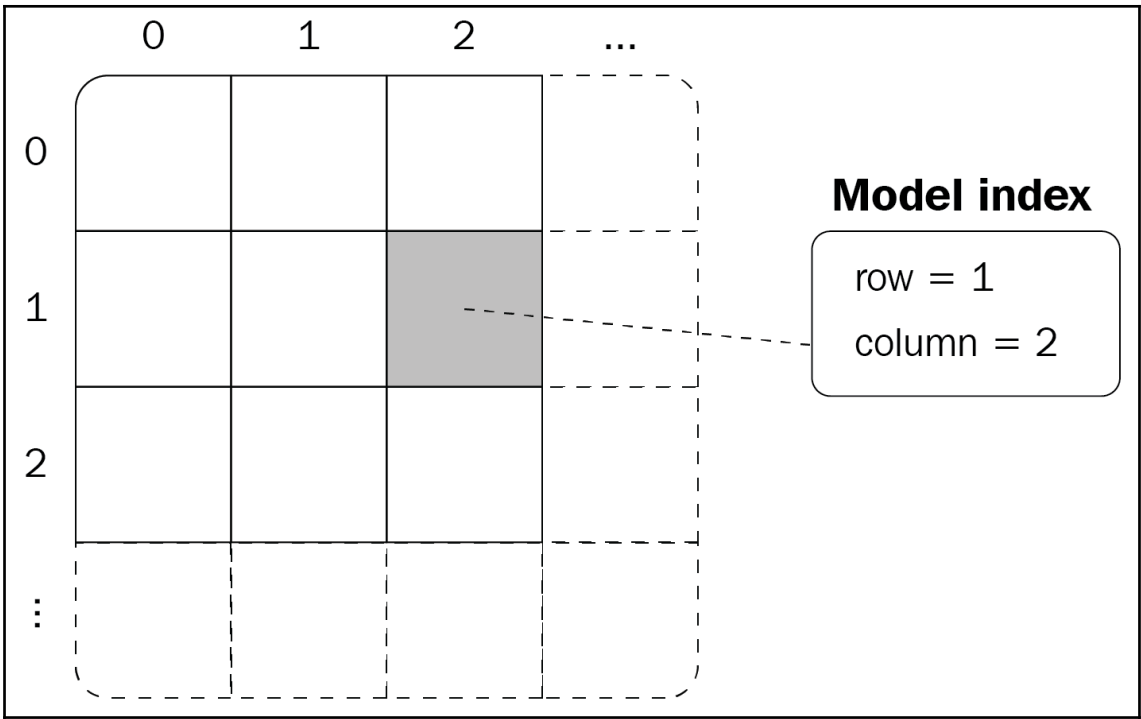


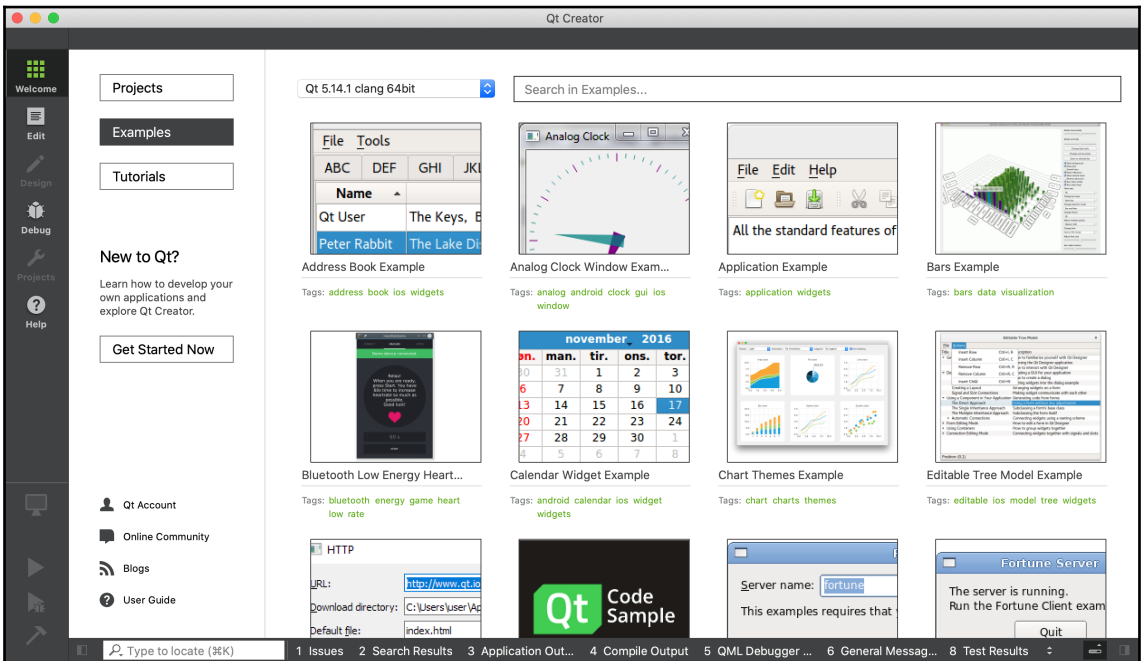
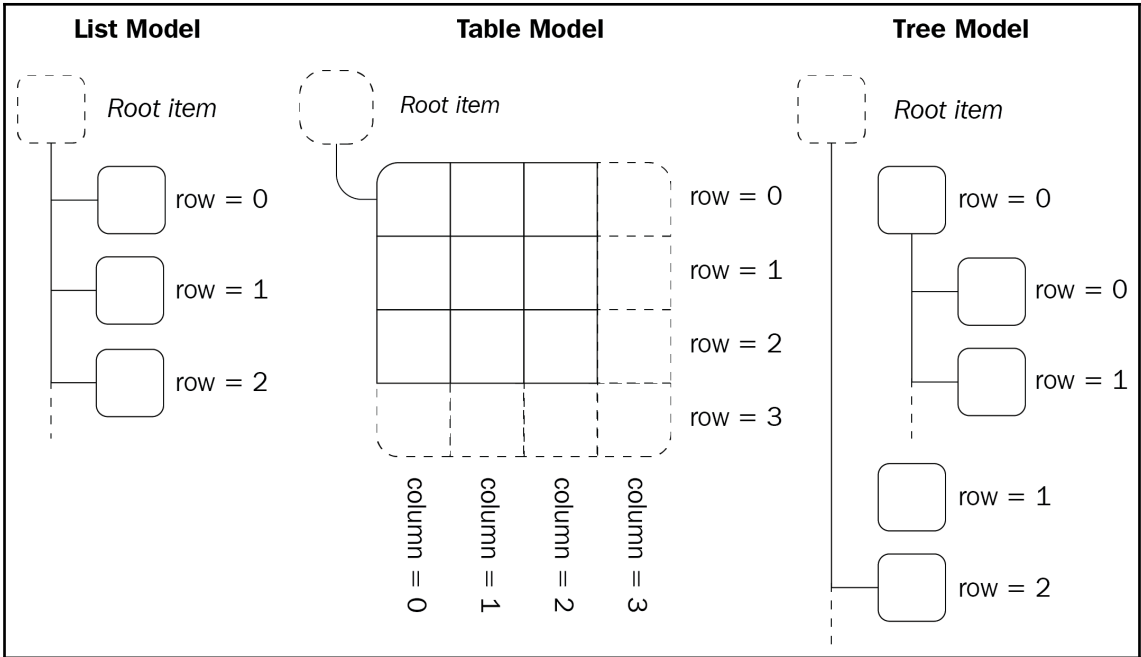


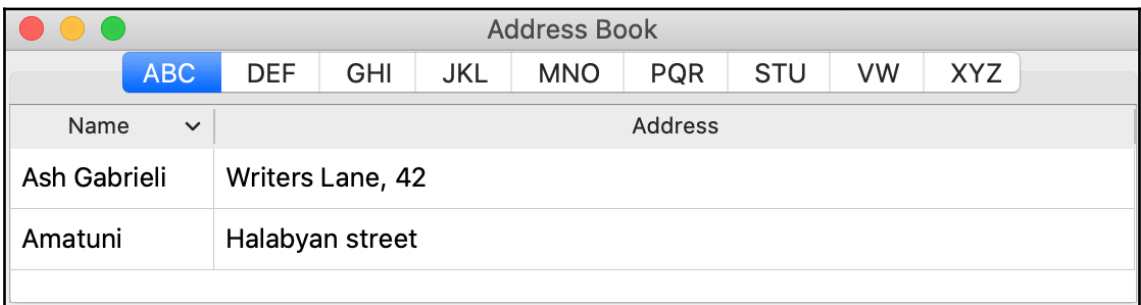
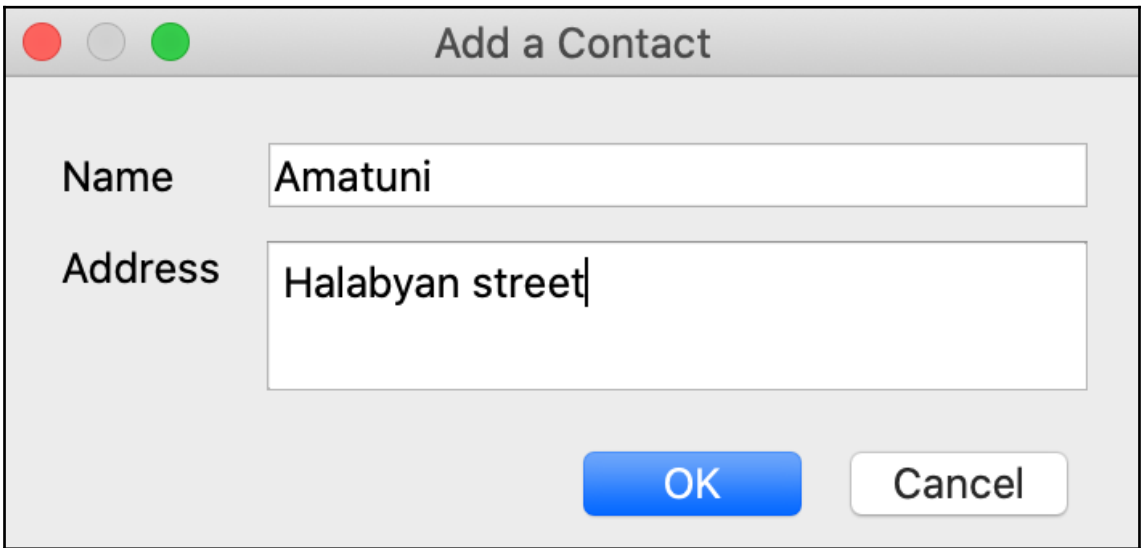
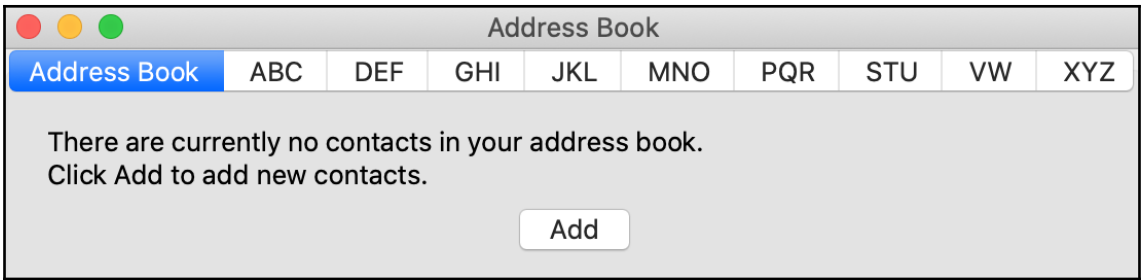


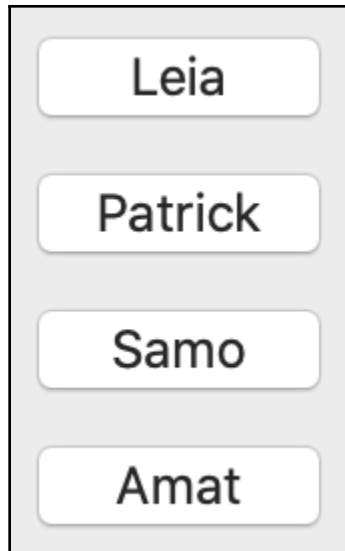




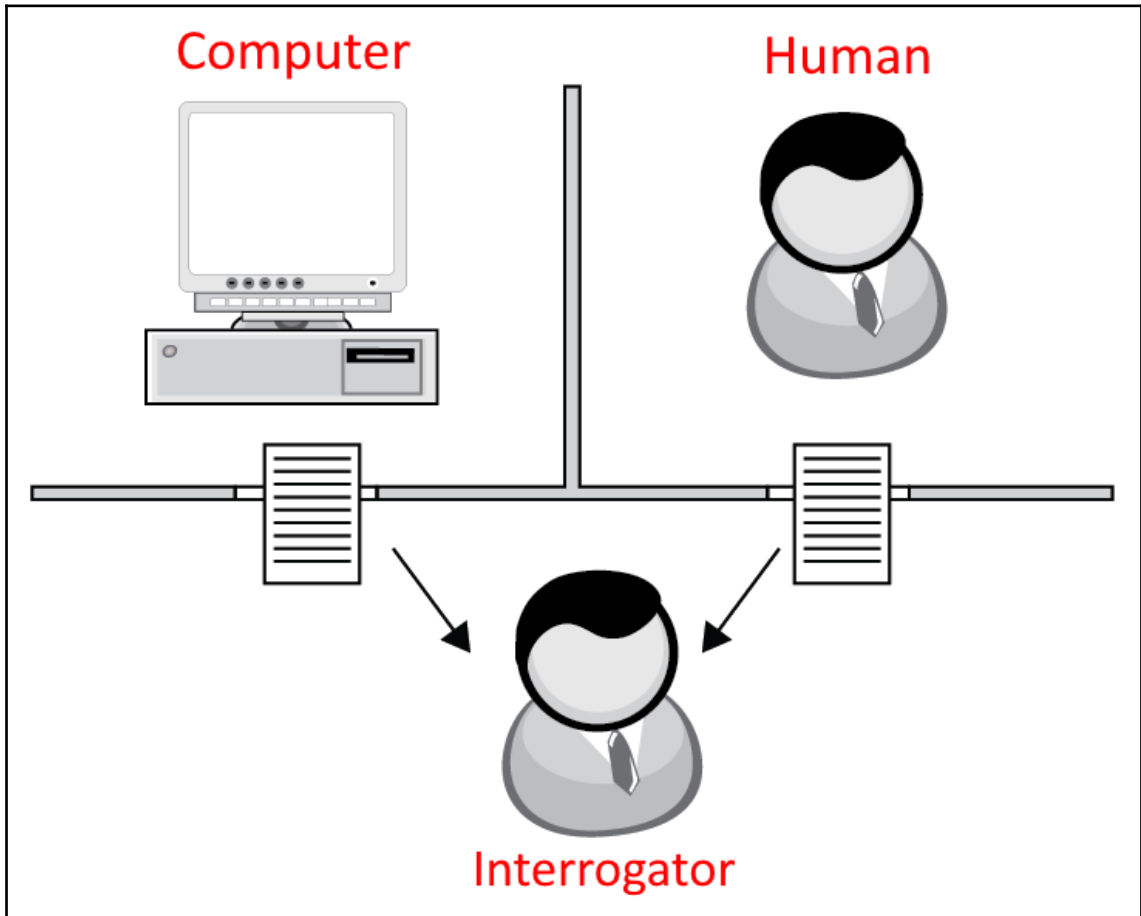


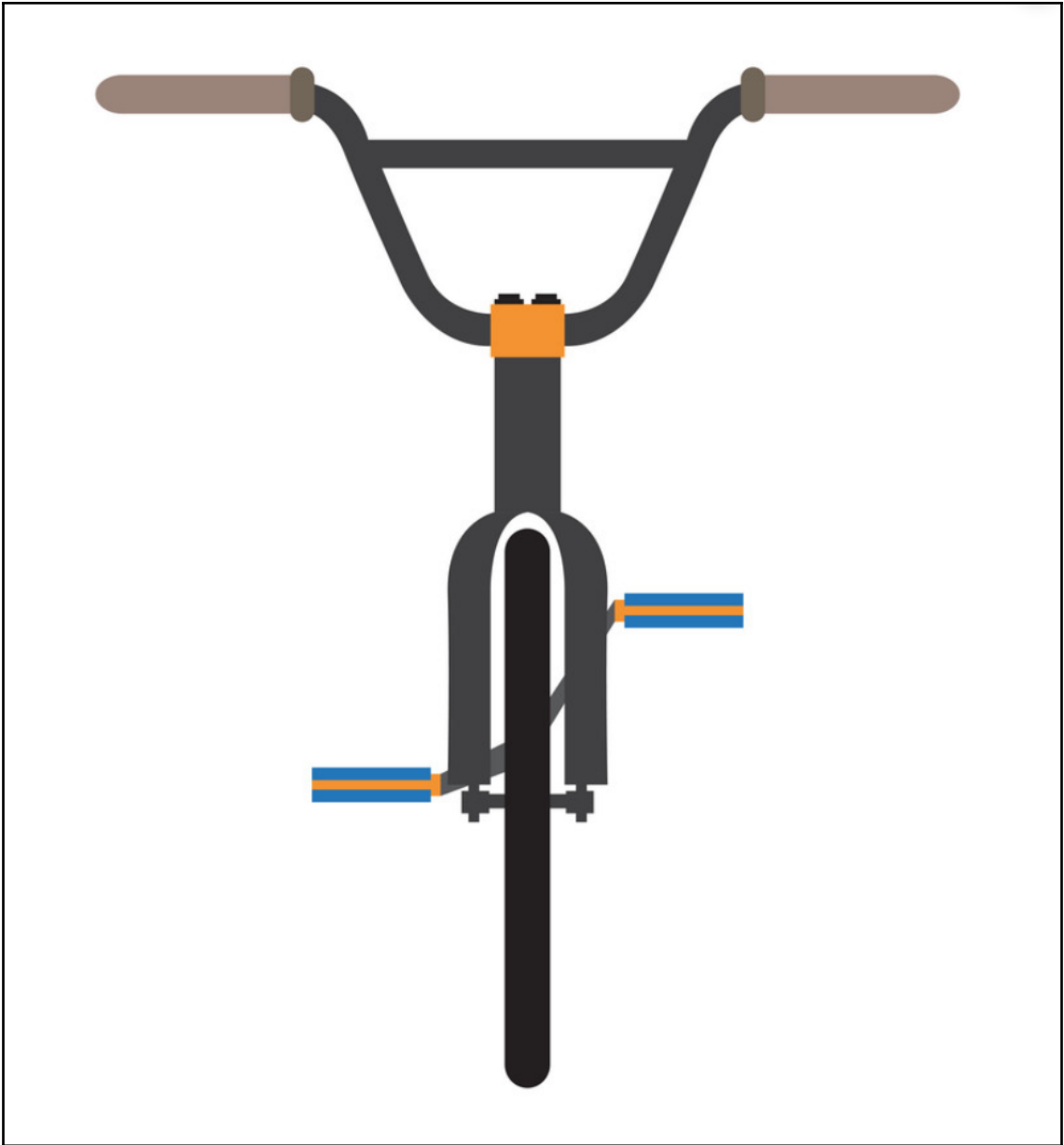


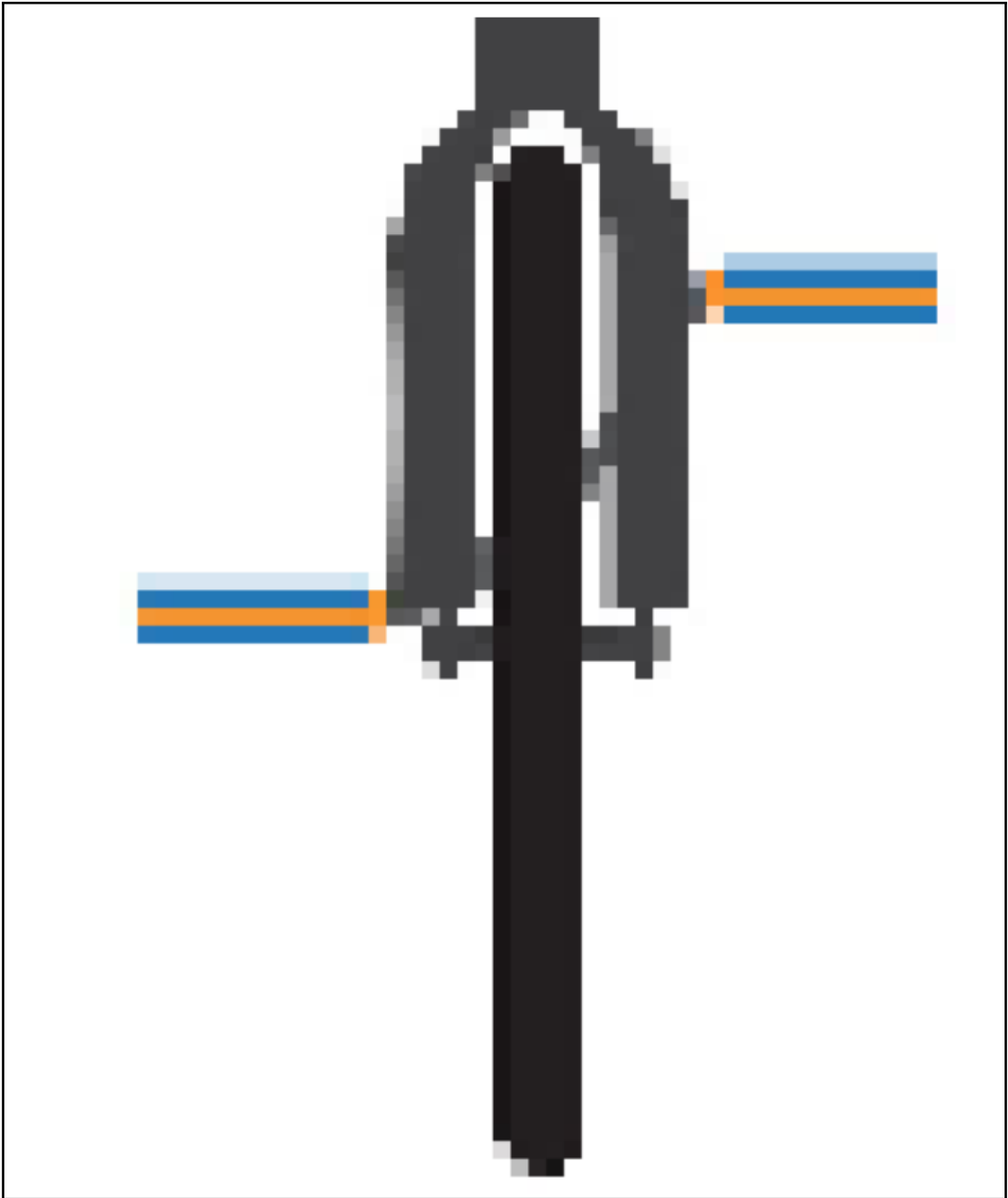


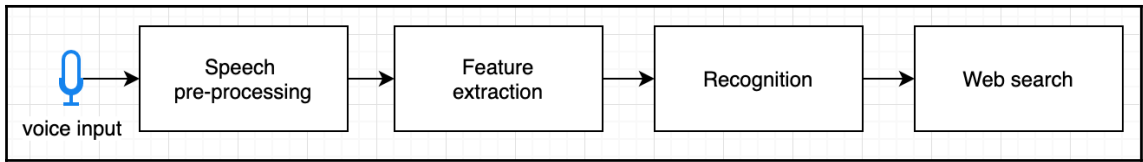


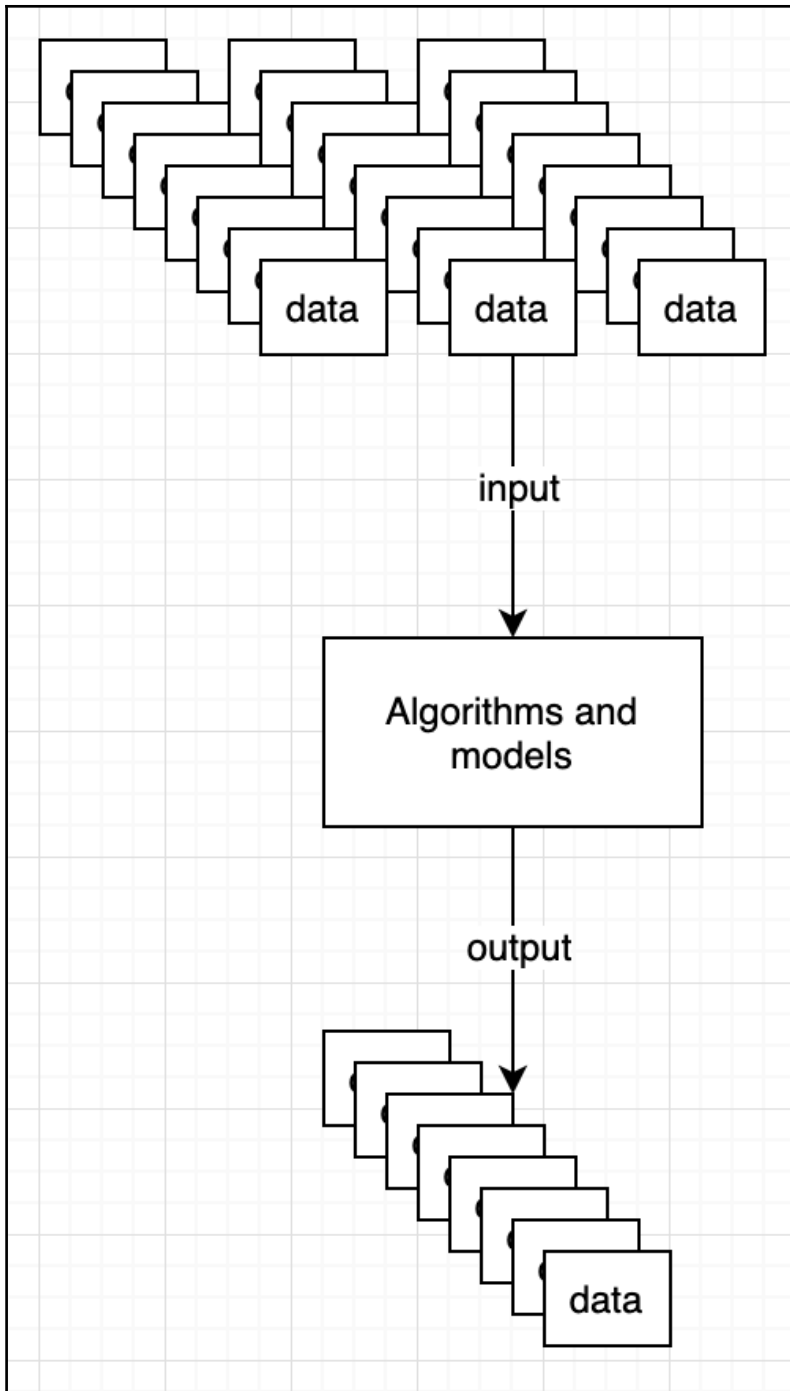
Chapter 15: Using C++ in Machine Learning Tasks



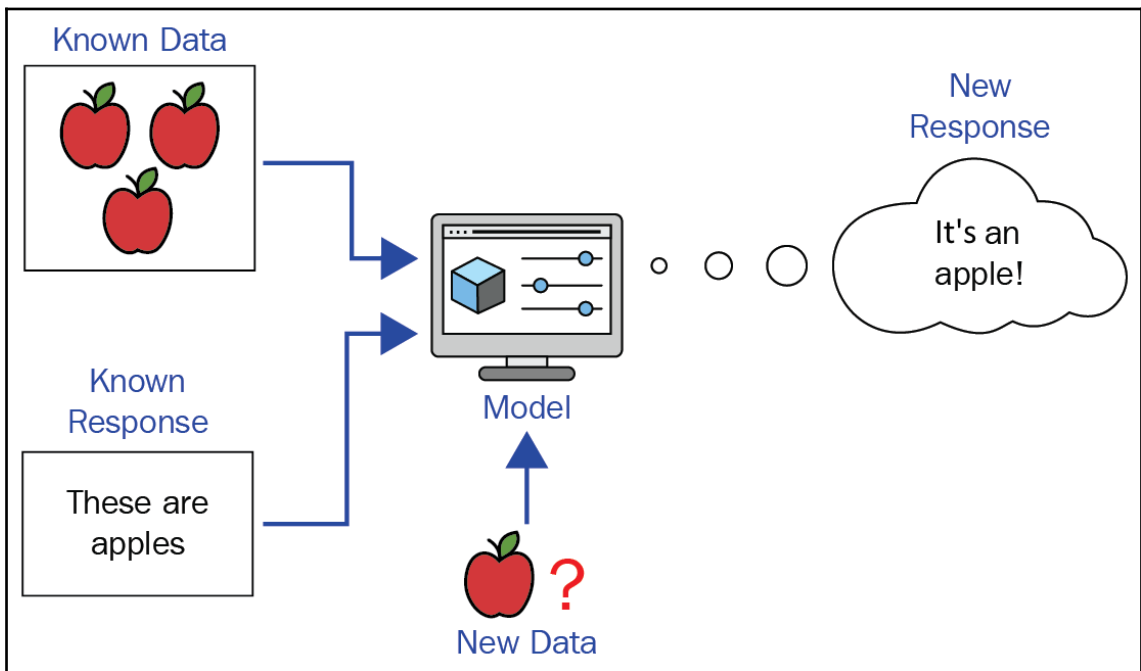
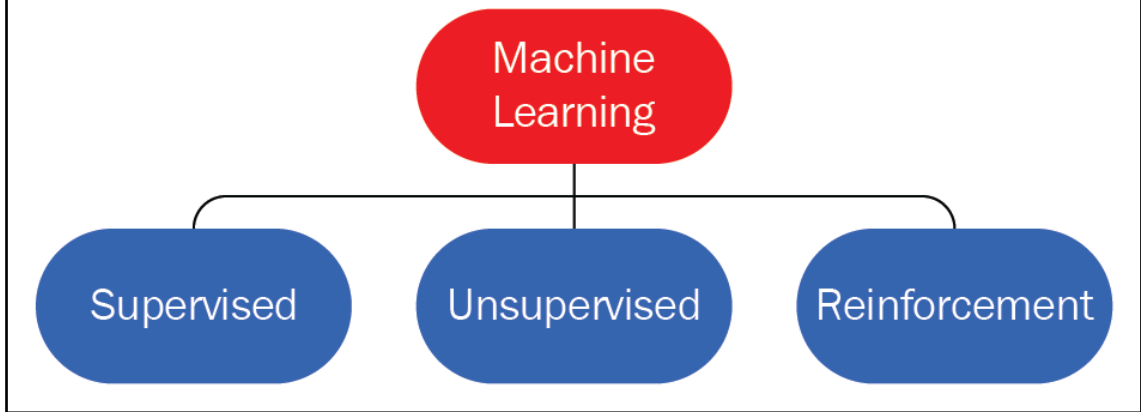


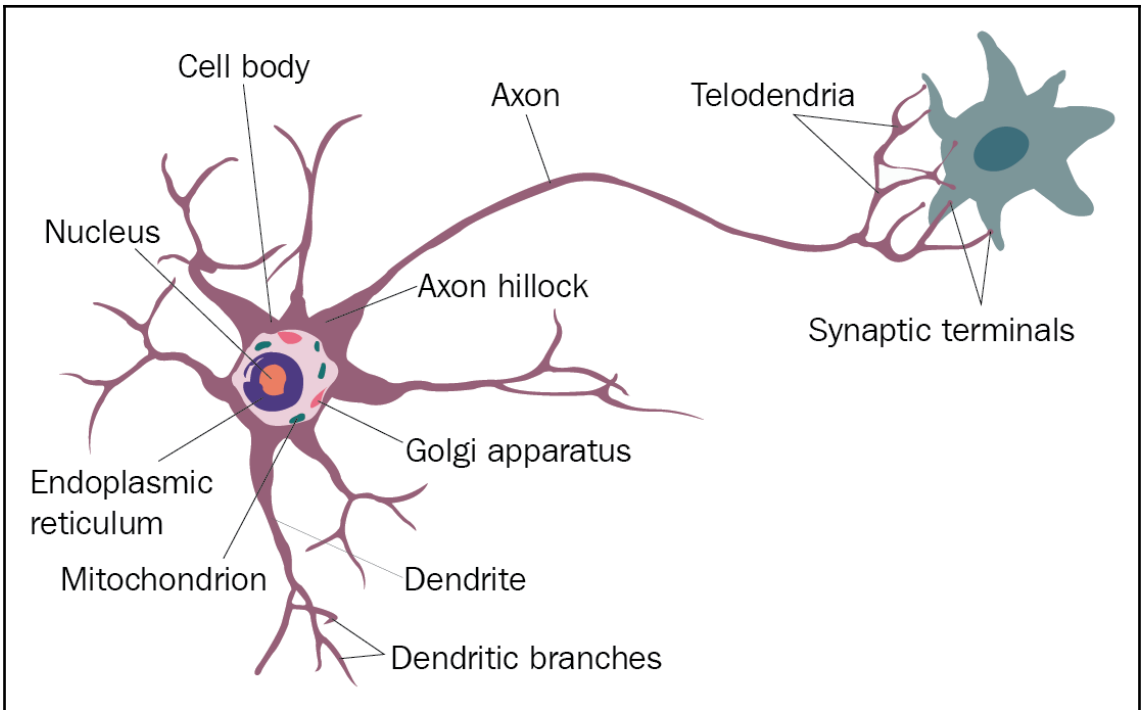
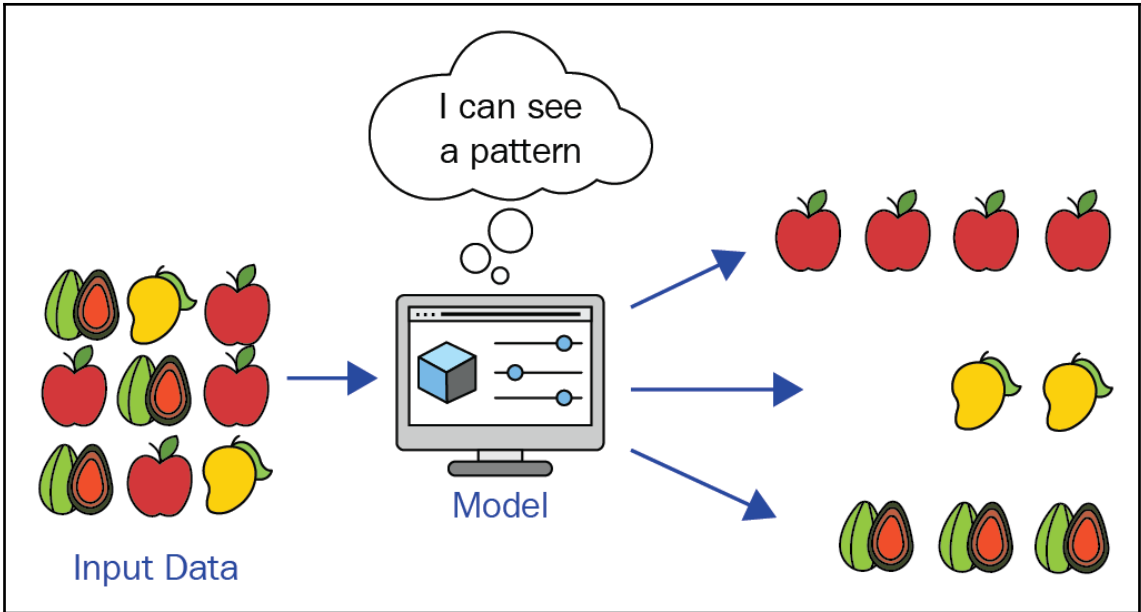


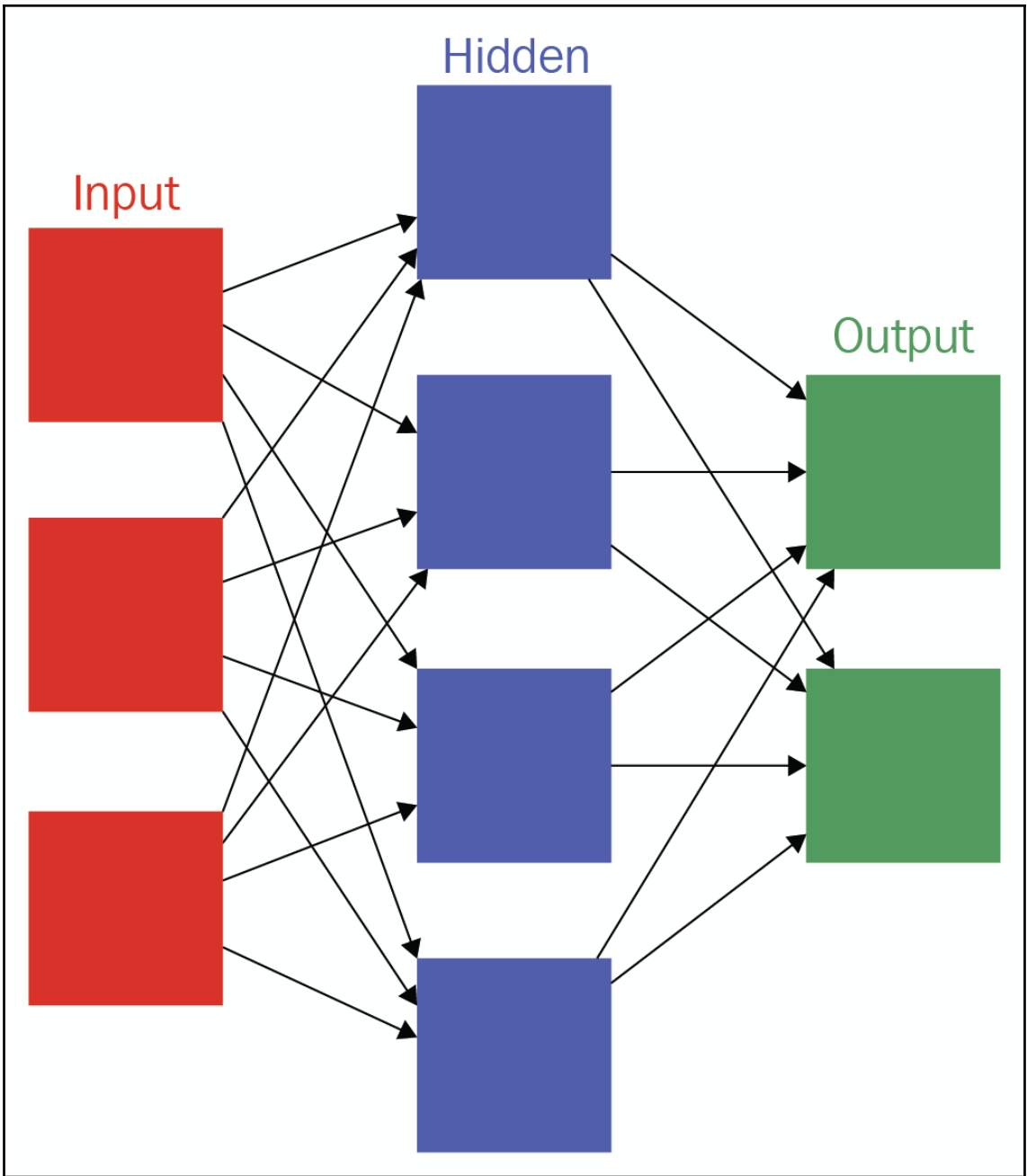


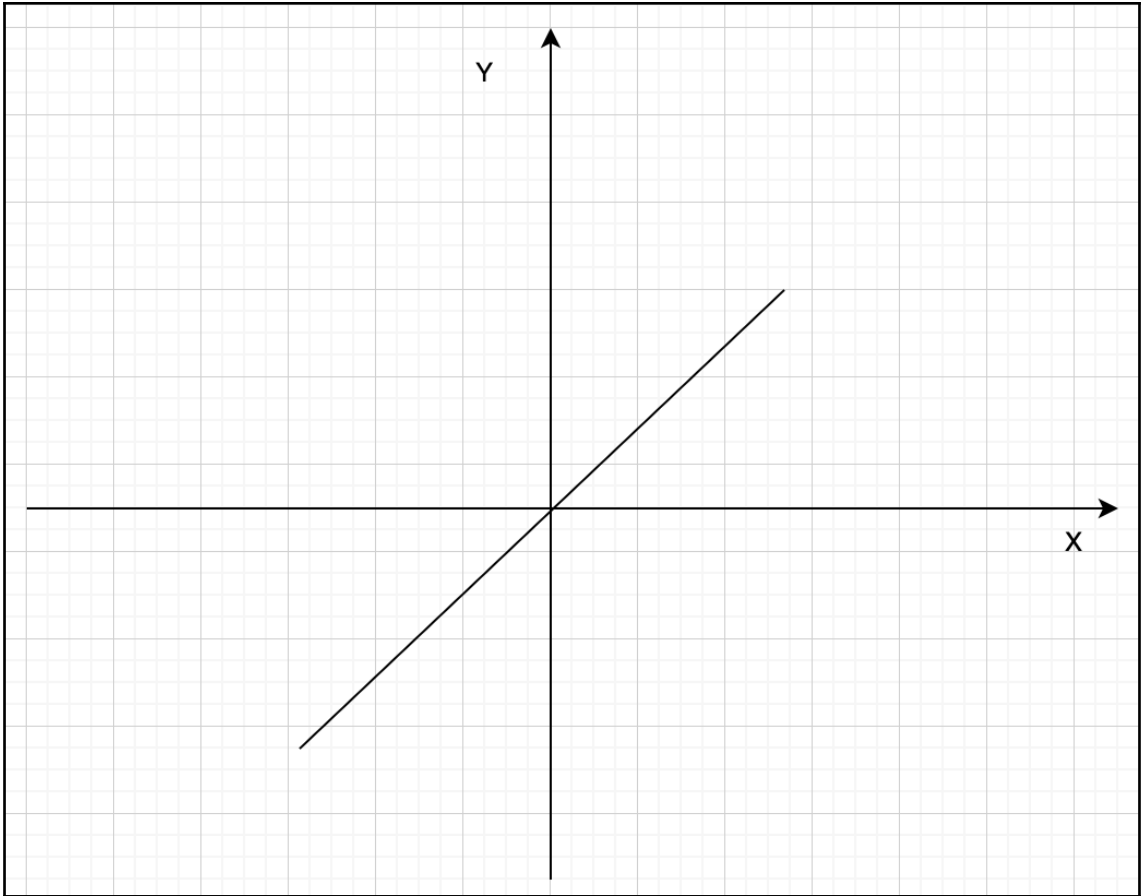
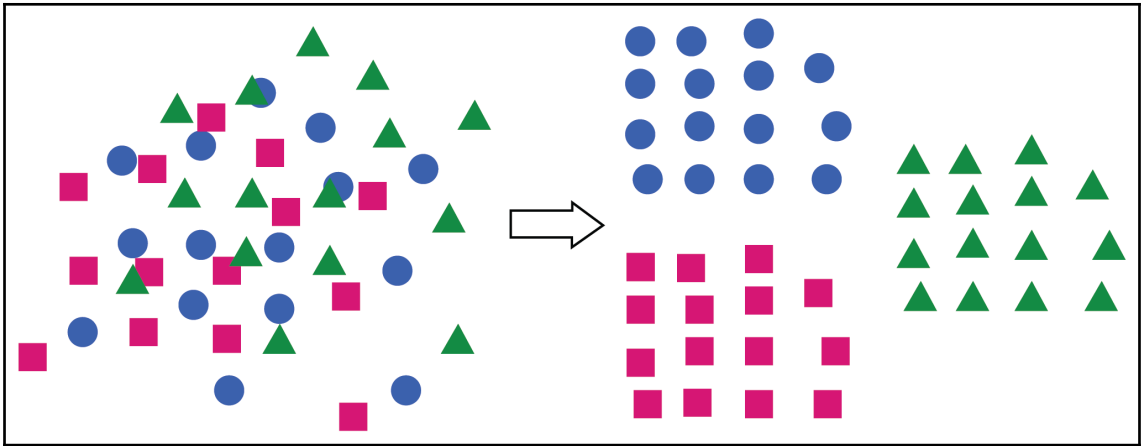


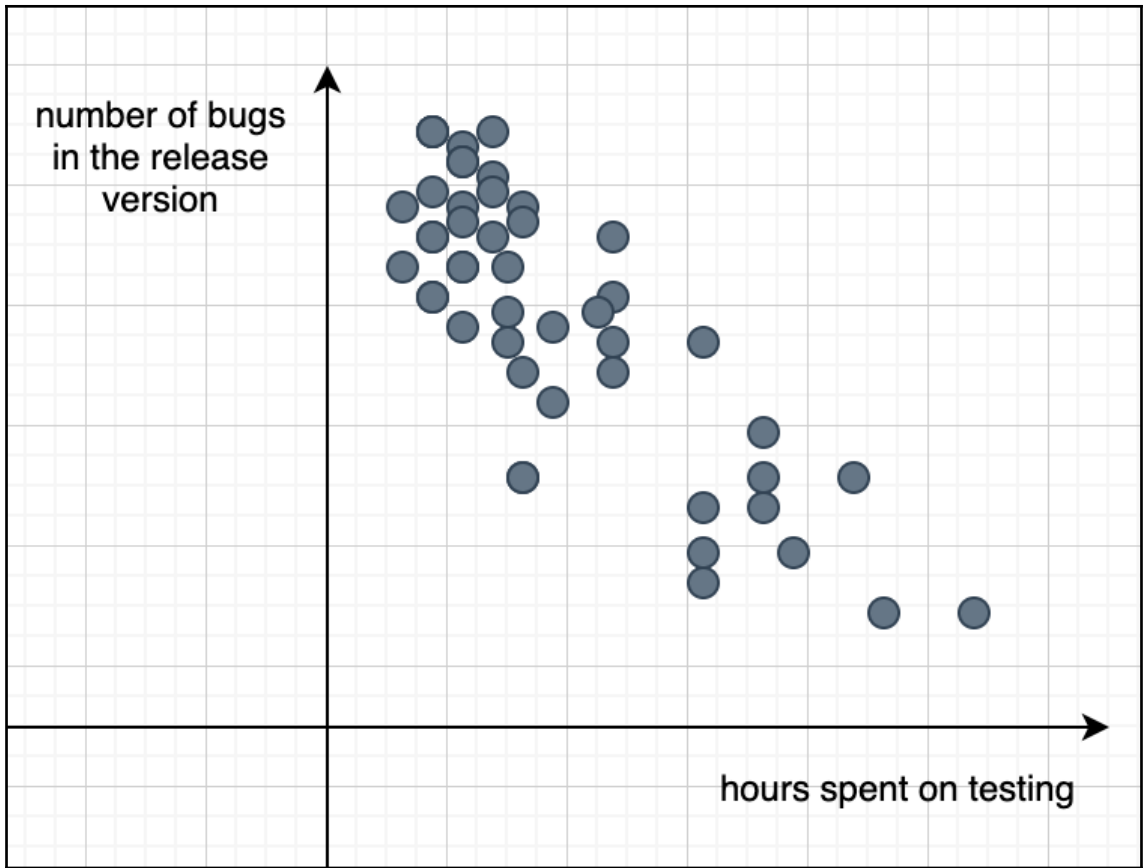
Types of Machine Learning



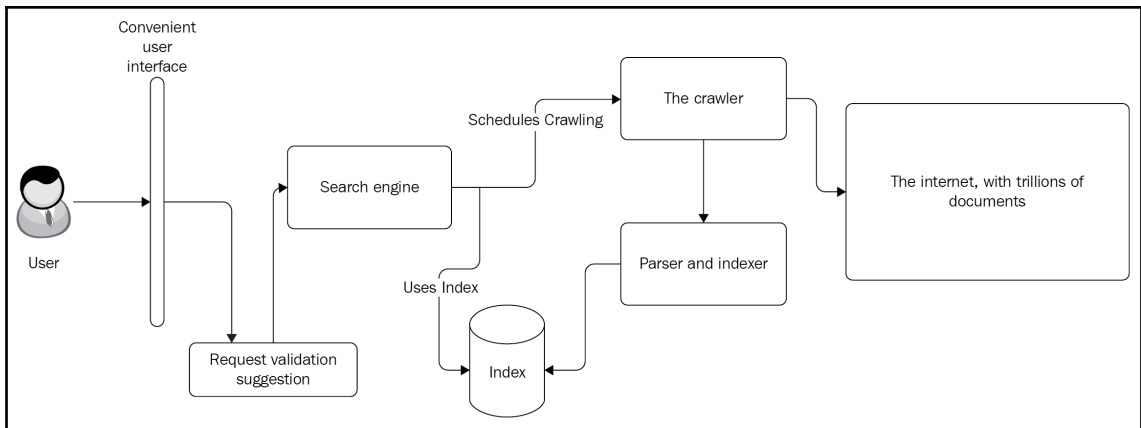
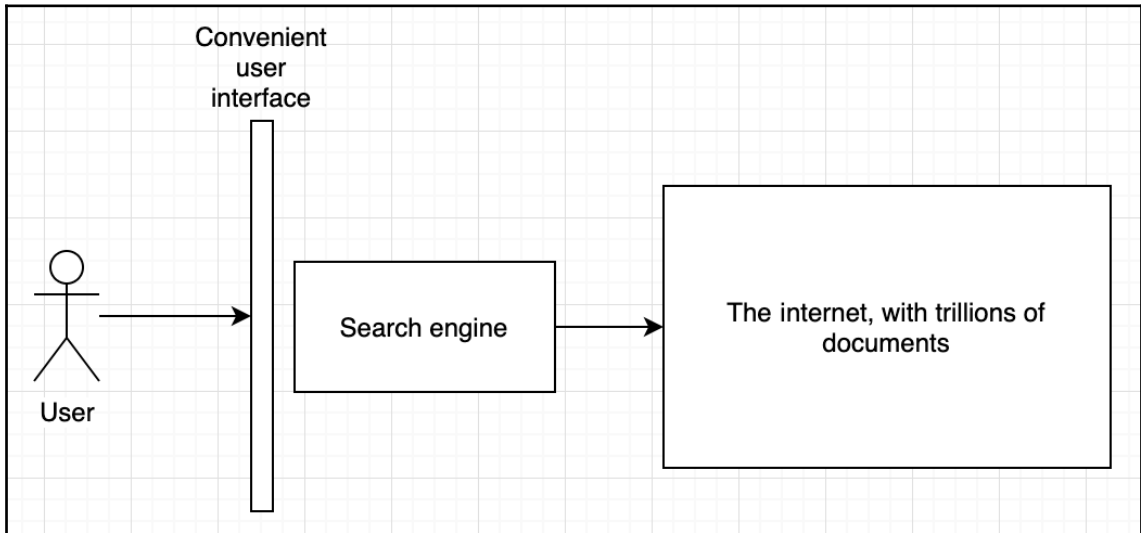








Chapter 16: Implementing a Dialog-Based Search Engine





Q mastering C++



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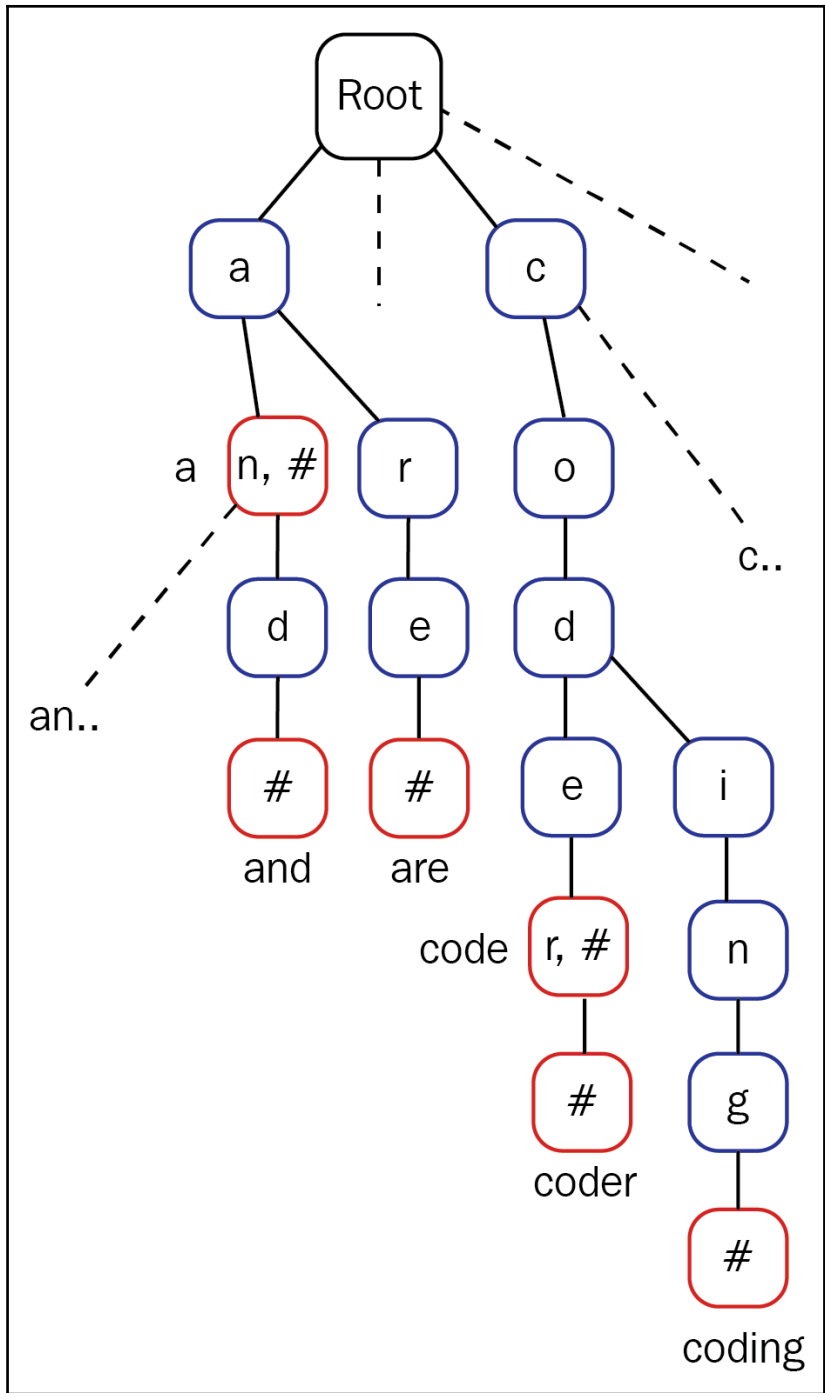
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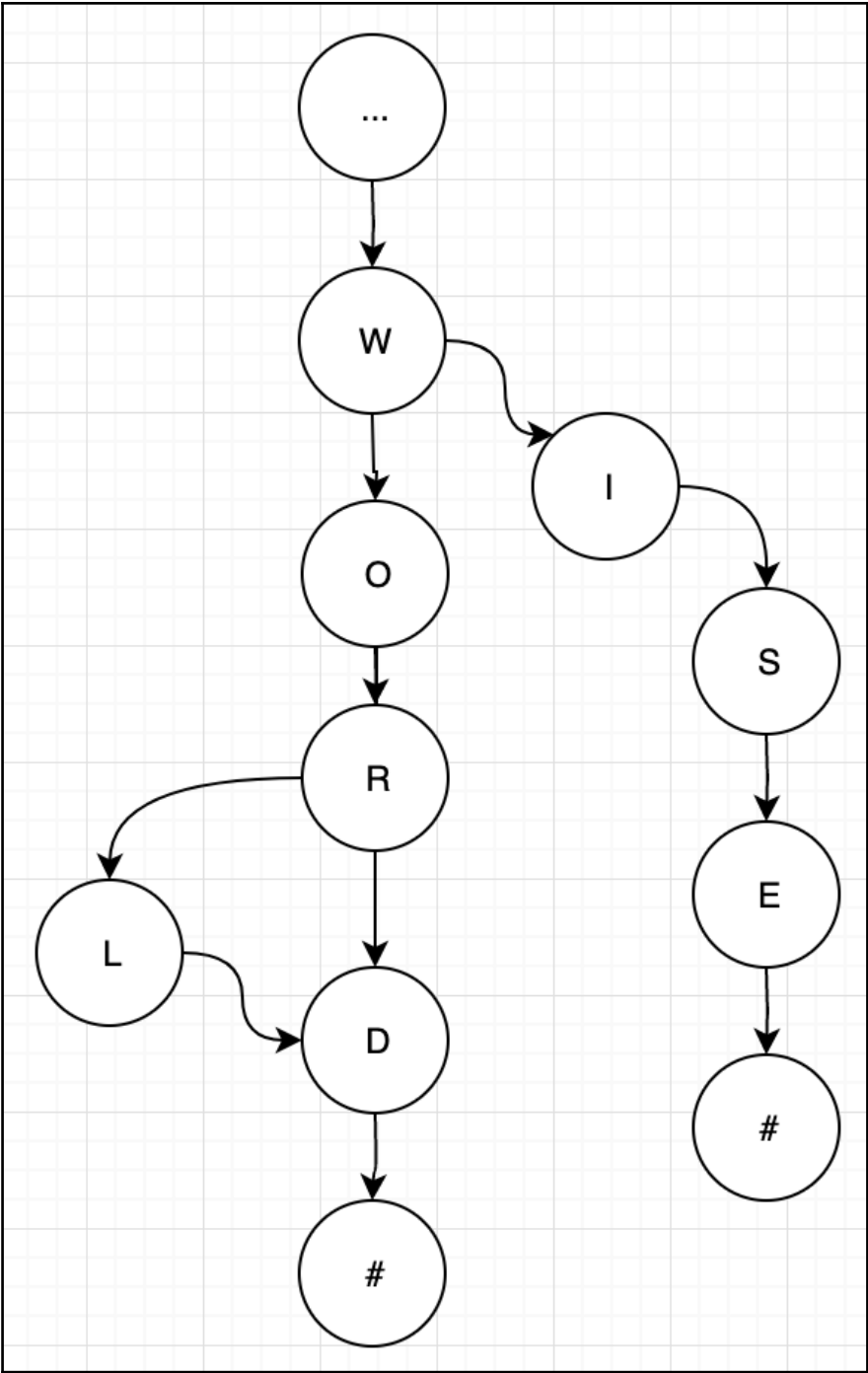
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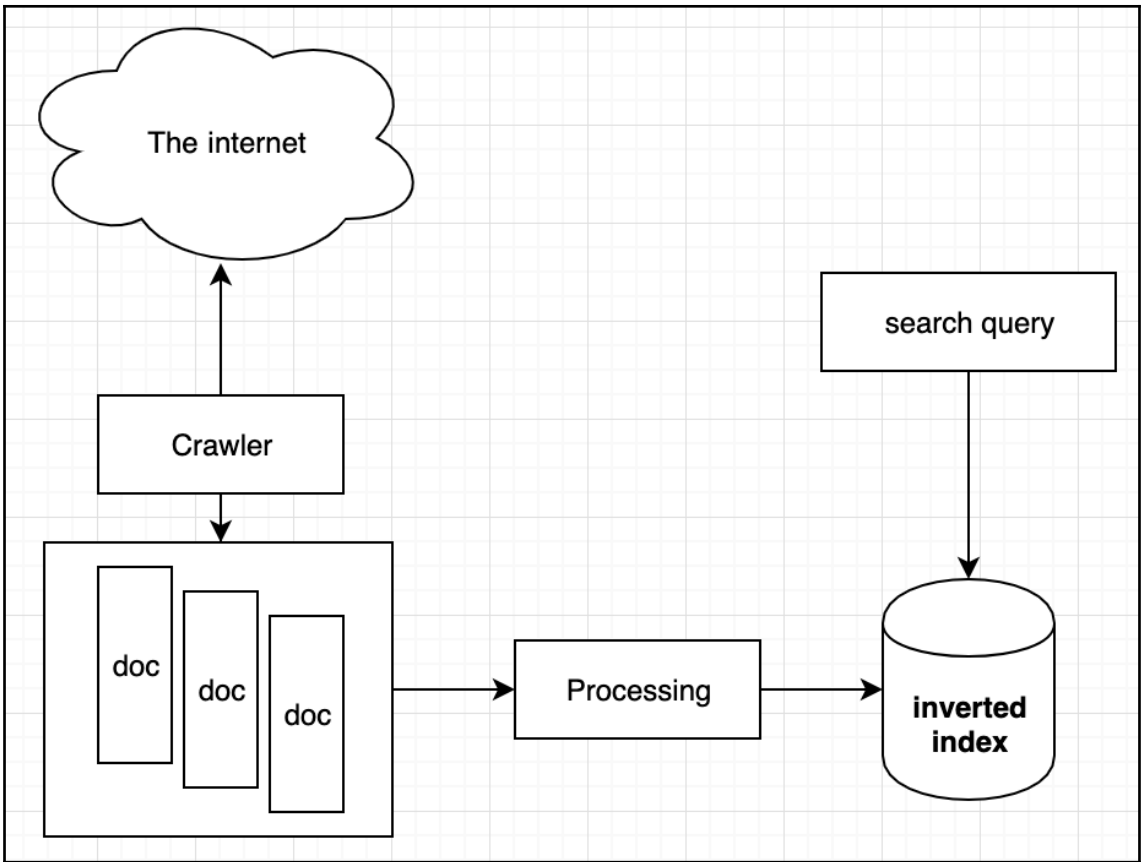
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Donald Knuth



American computer scientist

Donald Ervin Knuth is an American computer scientist, mathematician, and professor emeritus at Stanford University. He is the 1974 recipient of the ACM Turing Award, informally considered the Nobel Prize of computer science. He is the author of the multi-volume work *The Art of Computer Programming*. [Wikipedia](#)

Born: January 10, 1938 (age 82 years), [Milwaukee, Wisconsin, United States](#)

Spouse: [Jill Knuth](#) (m. 1961)

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