

# Chapter 16

# *Domain Name System (DNS)*

Figure 16-1

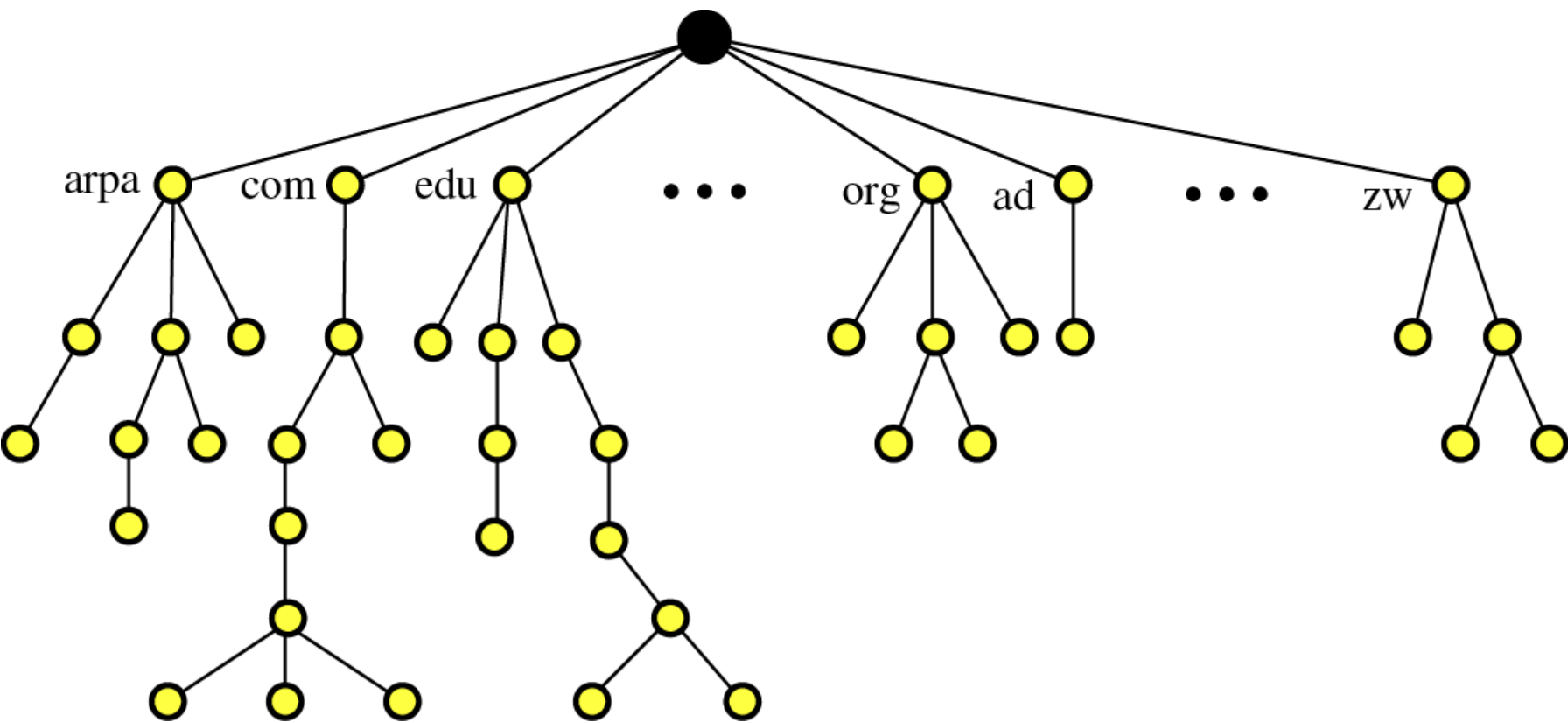
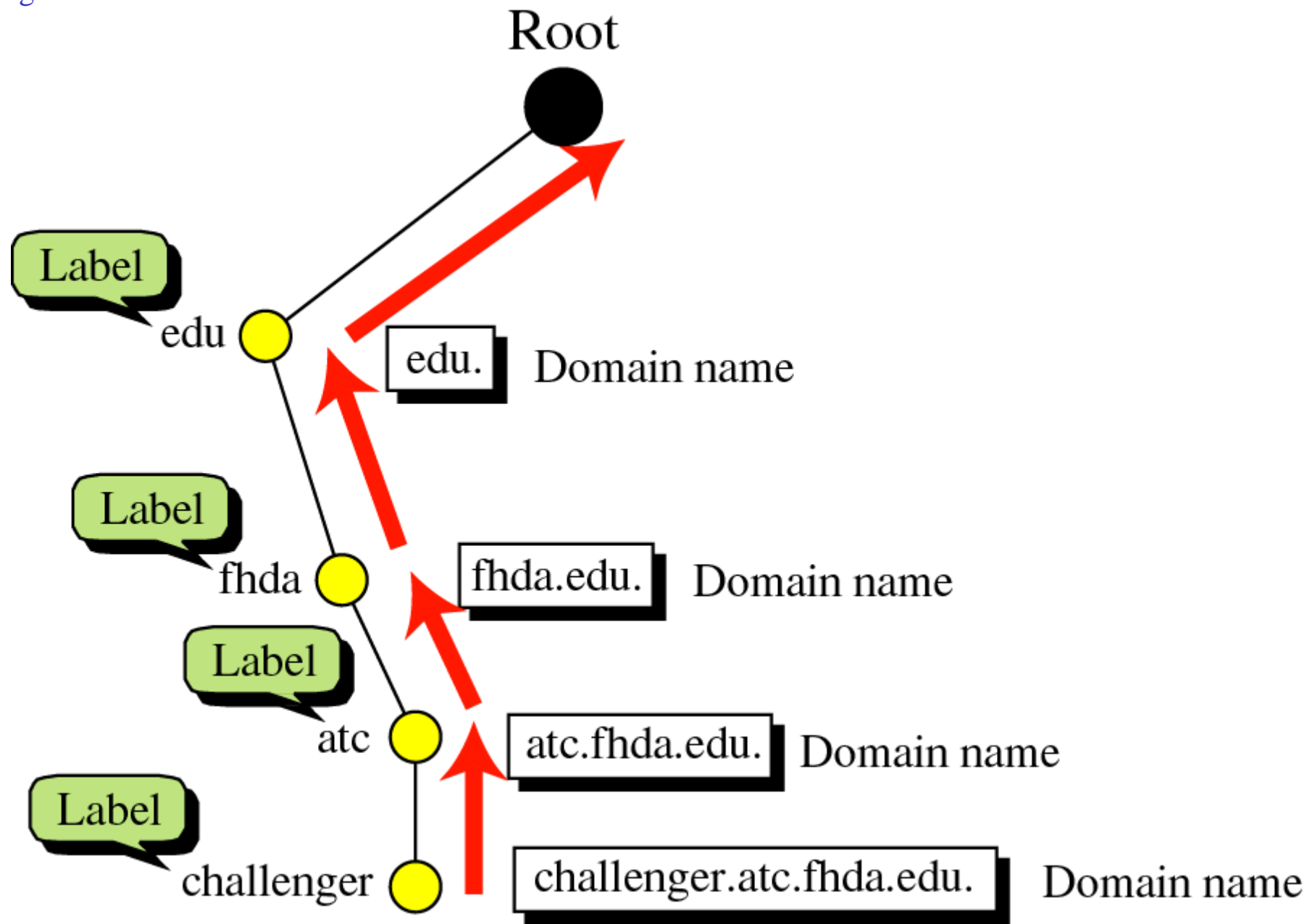


Figure 16-2



## FQDN

challenger.atc.fhda.edu.  
cs.hmme.com.  
www.funny.int.

## PQDN

challenger.atc.fhda.edu  
cs.hmme  
www

Figure 16-4

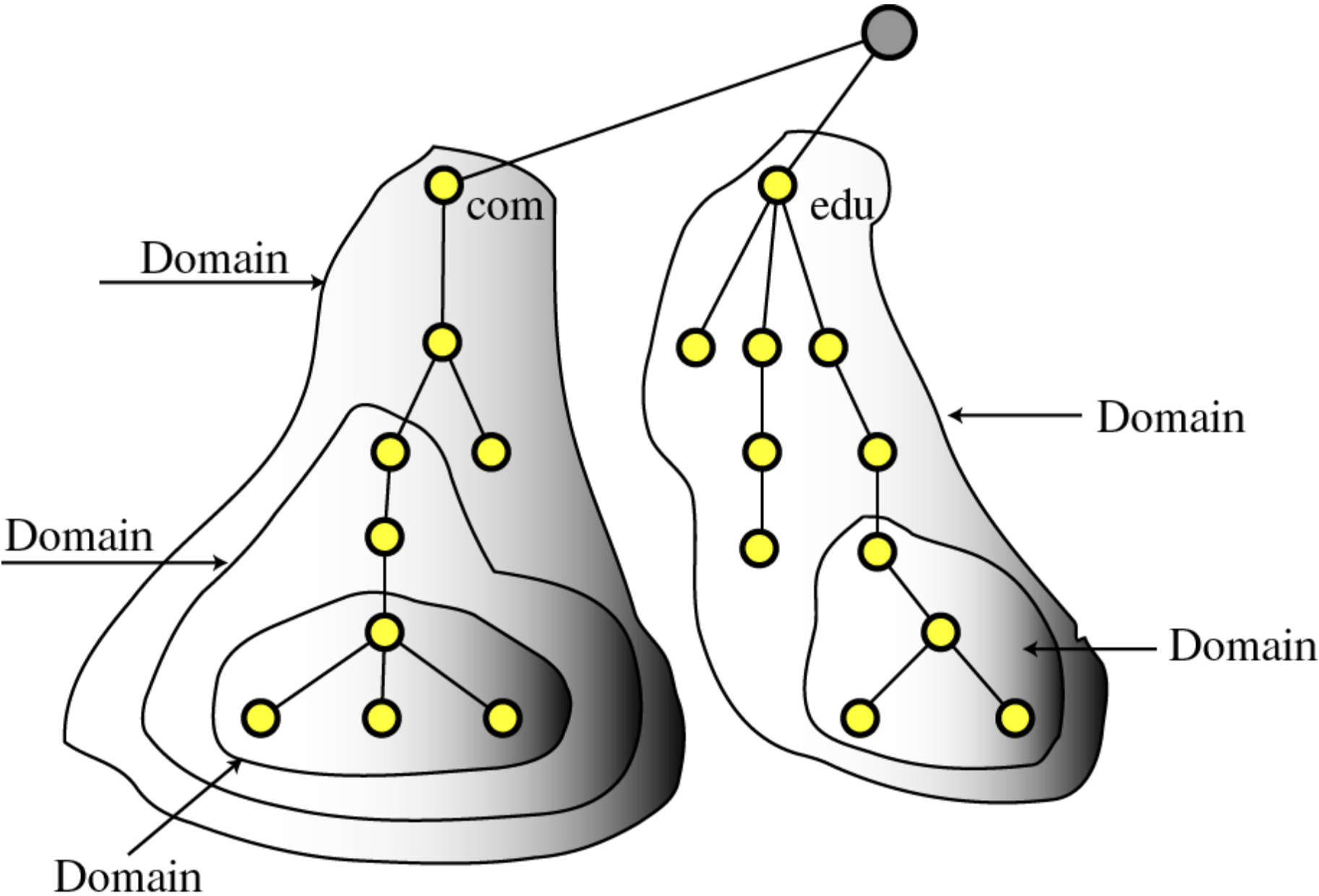


Figure 16-5

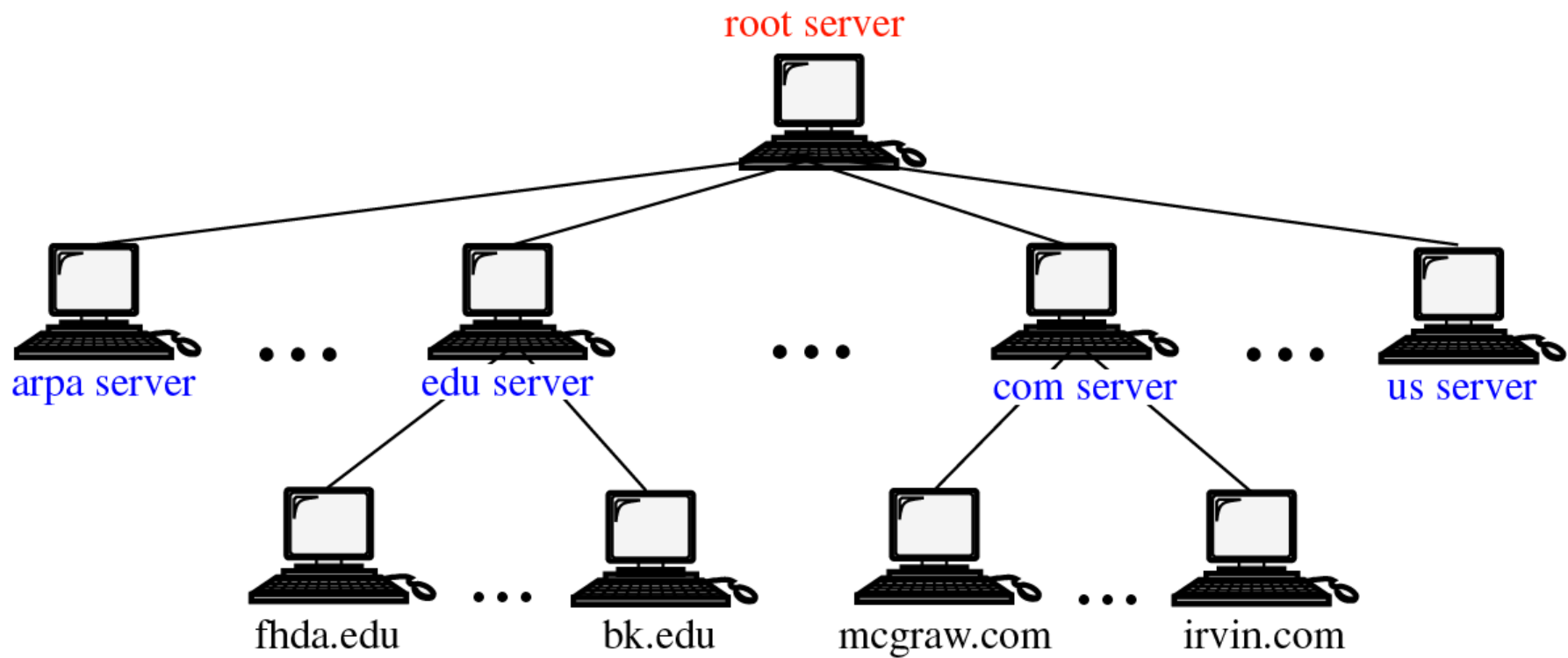


Figure 16-6

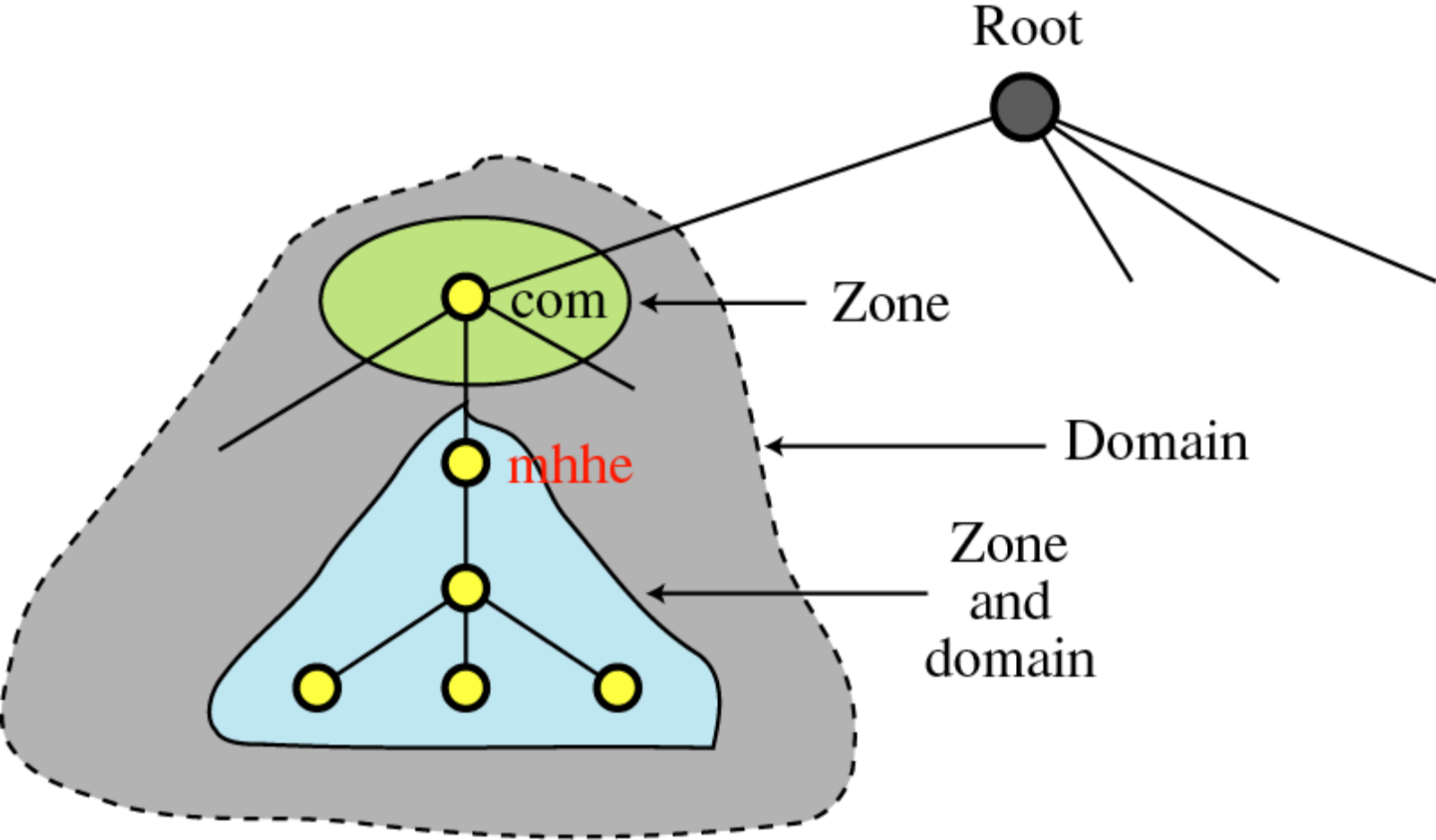


Figure 16-7

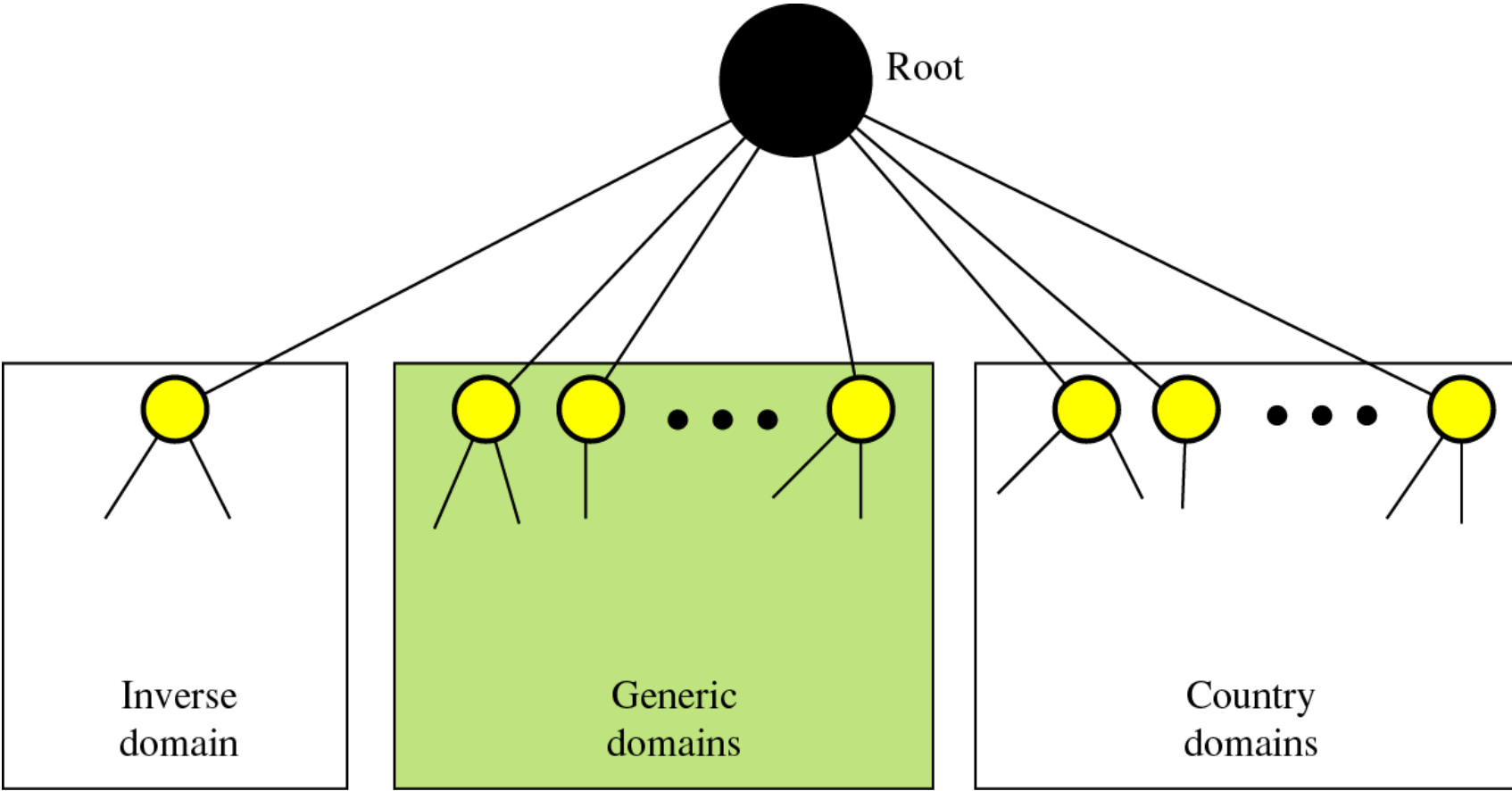




Figure 16-8

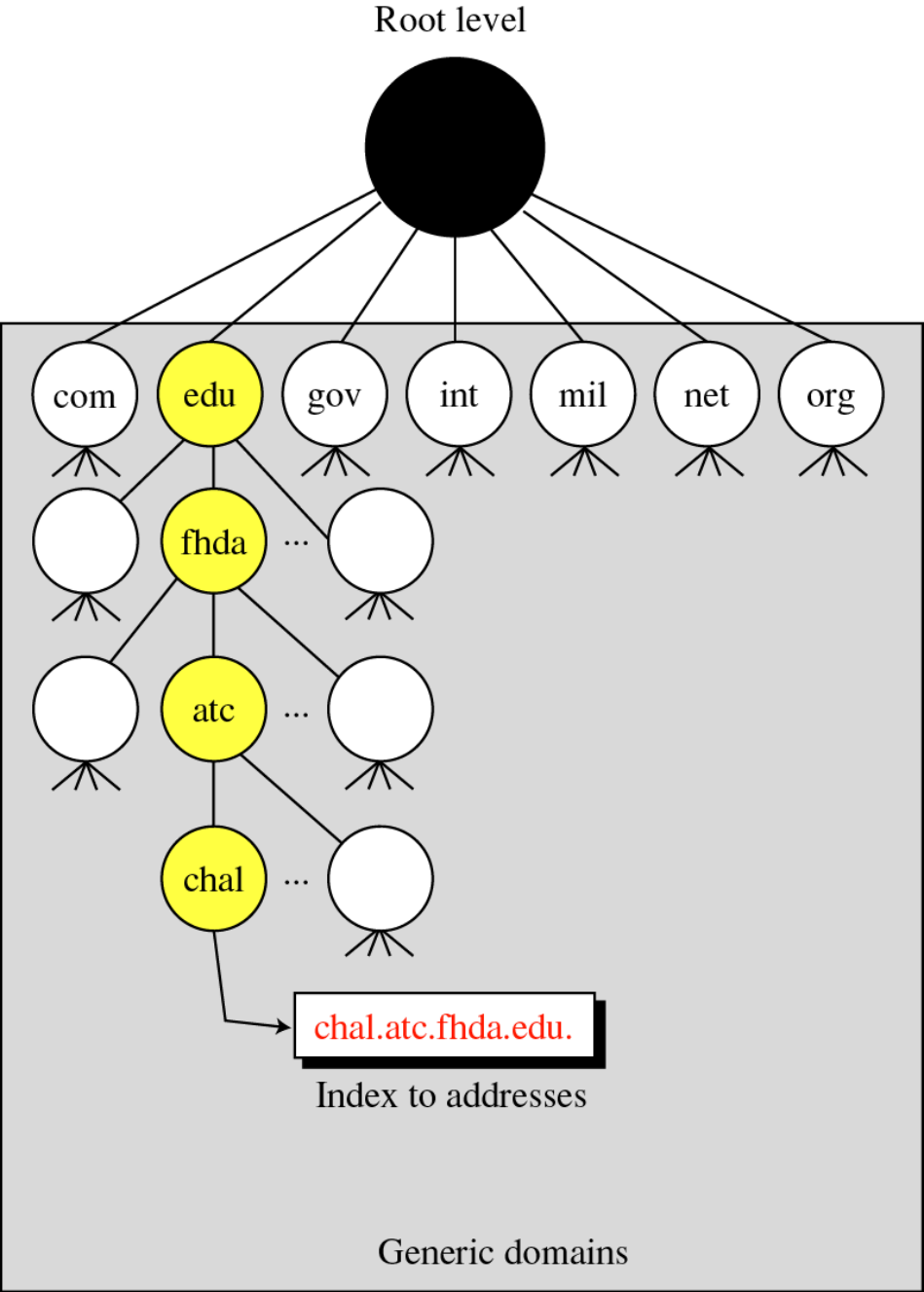


Figure 16-9

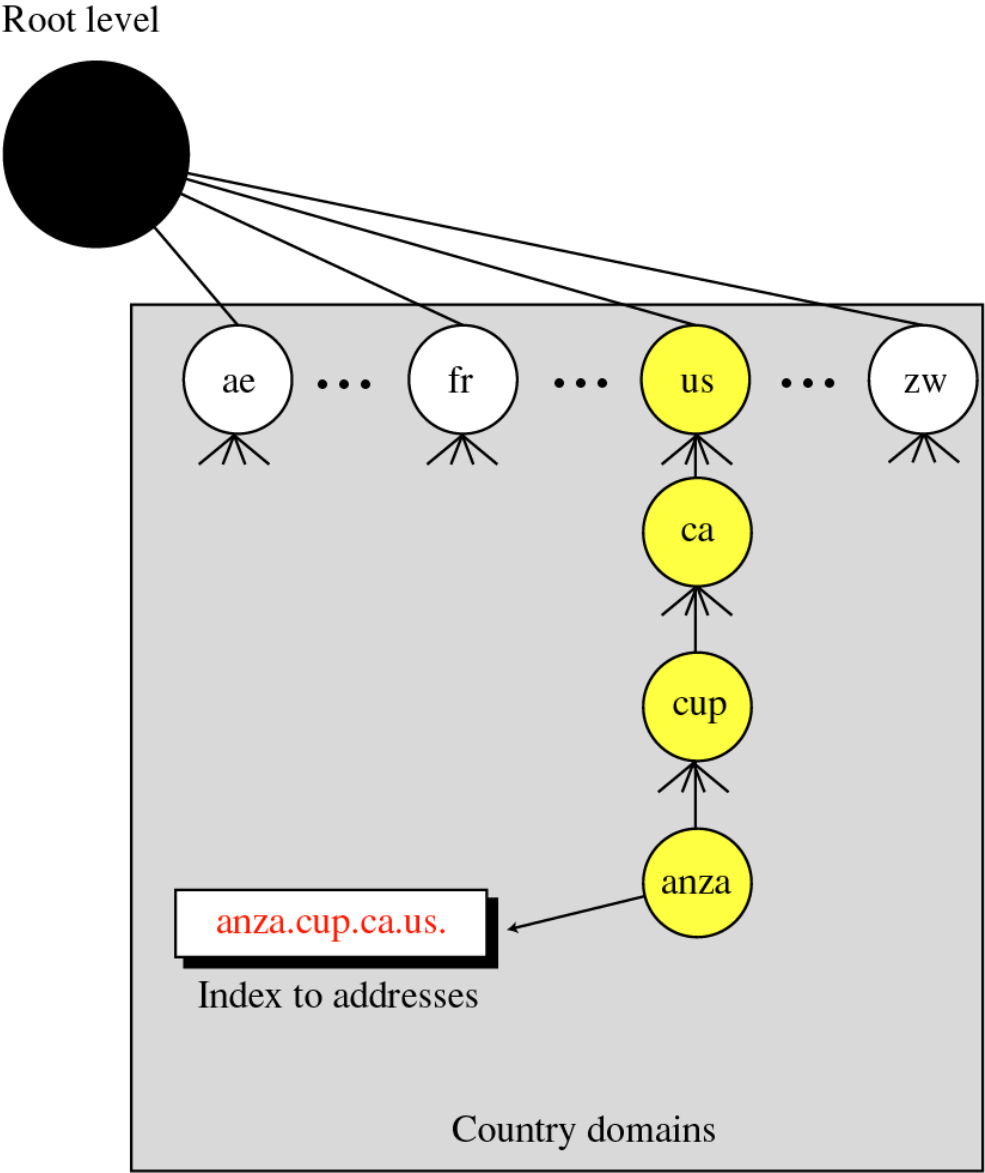


Figure 16-10

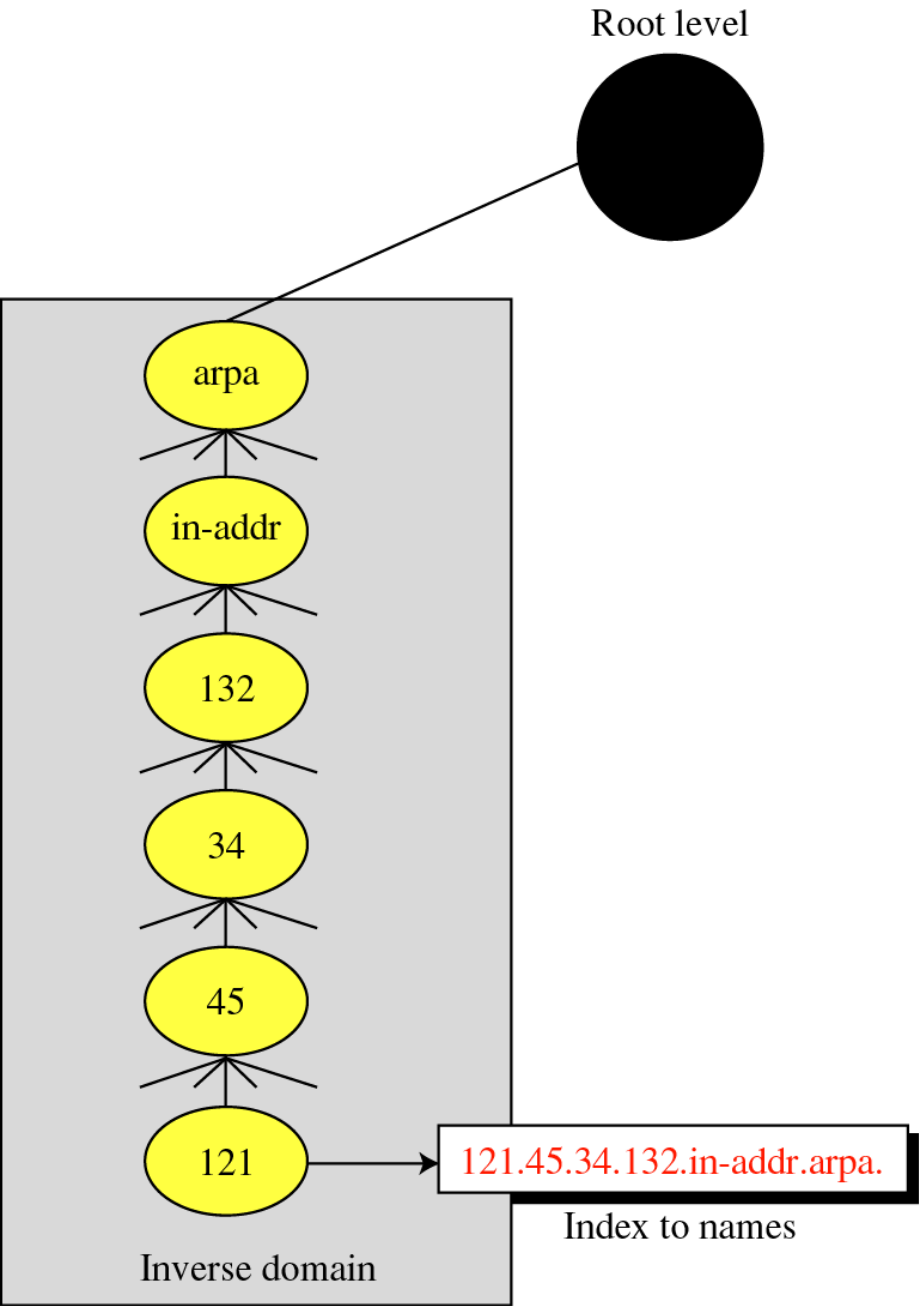


Figure 16-11

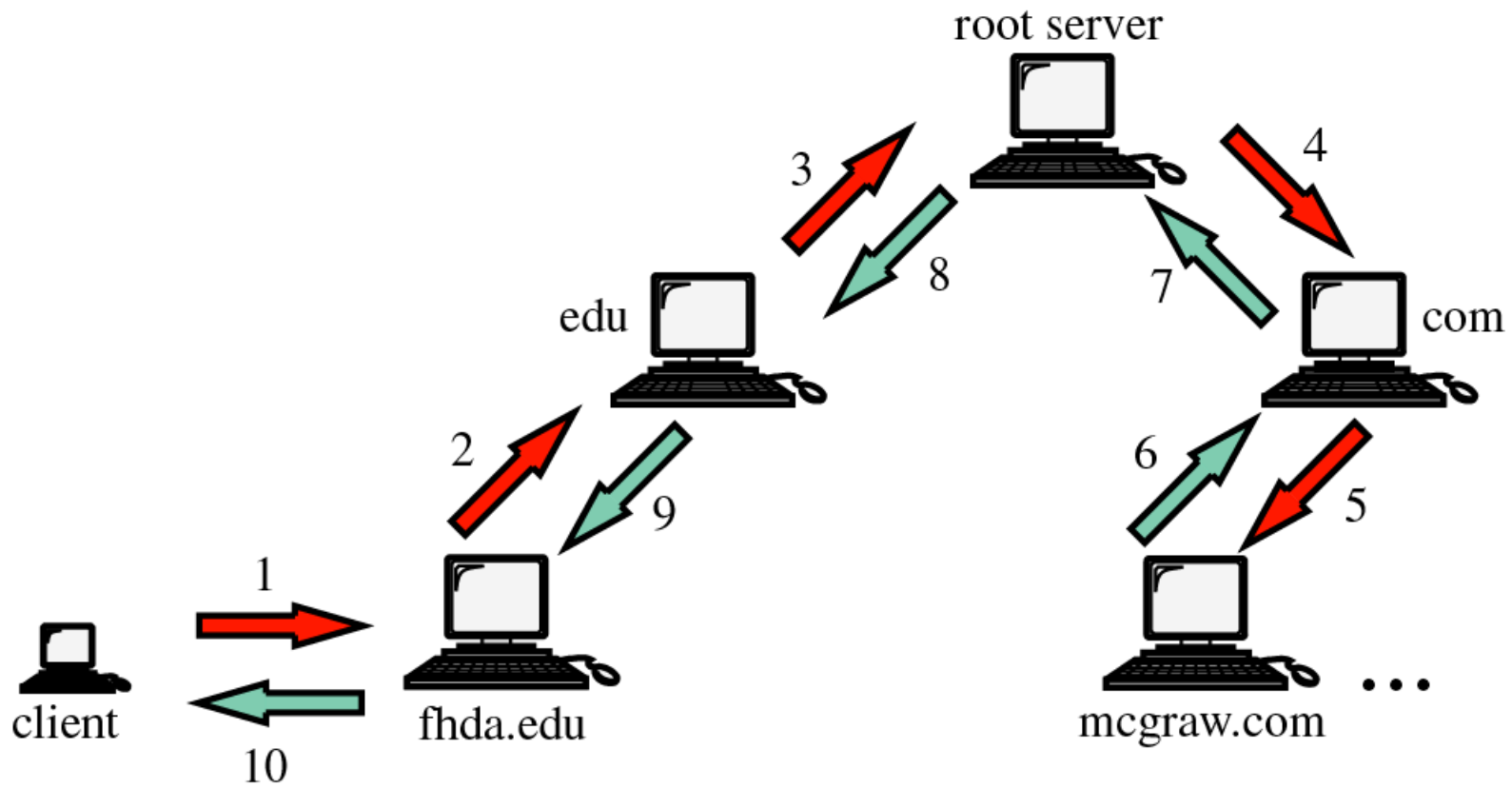


Figure 16-12

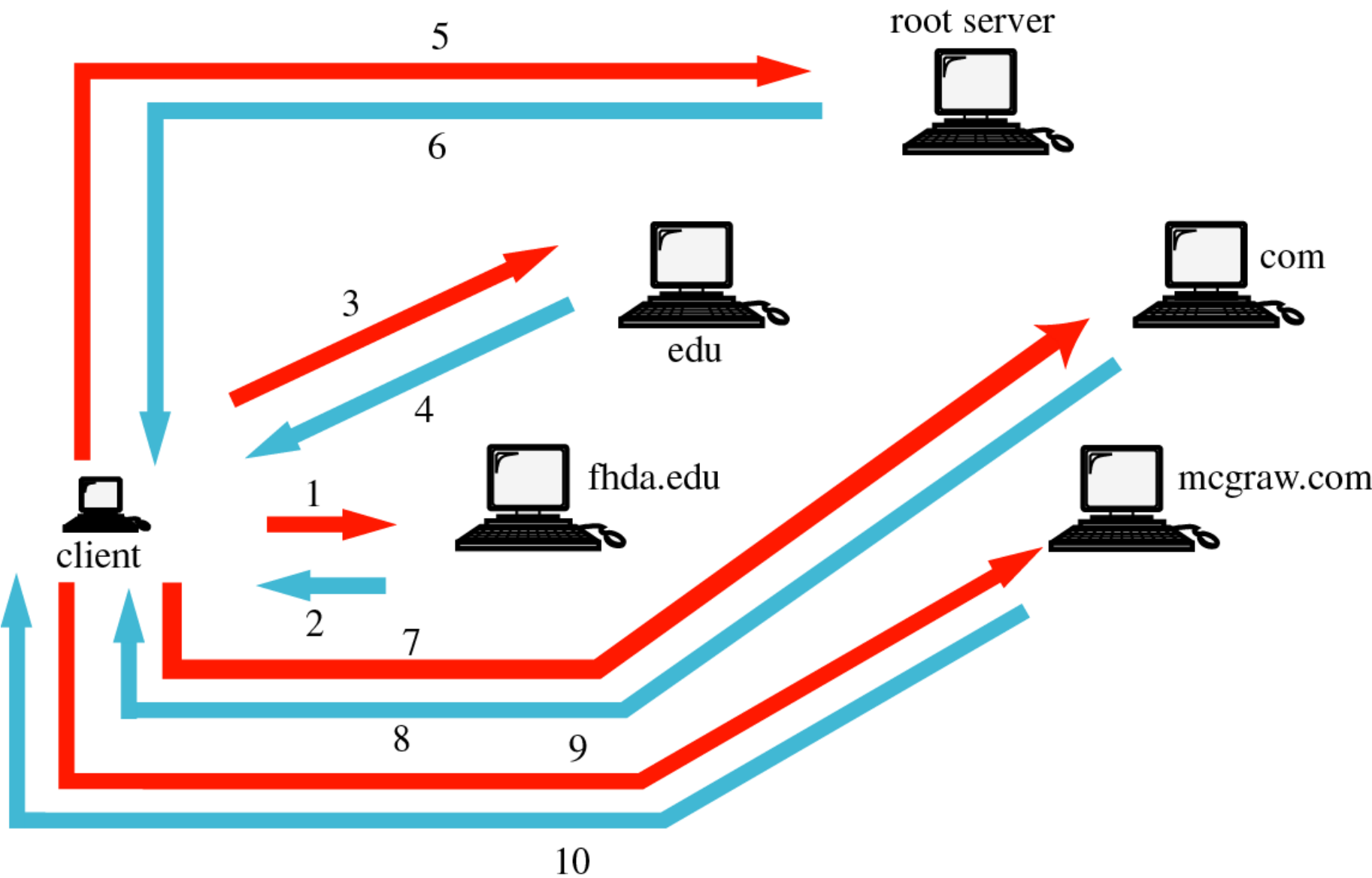


Figure 16-13

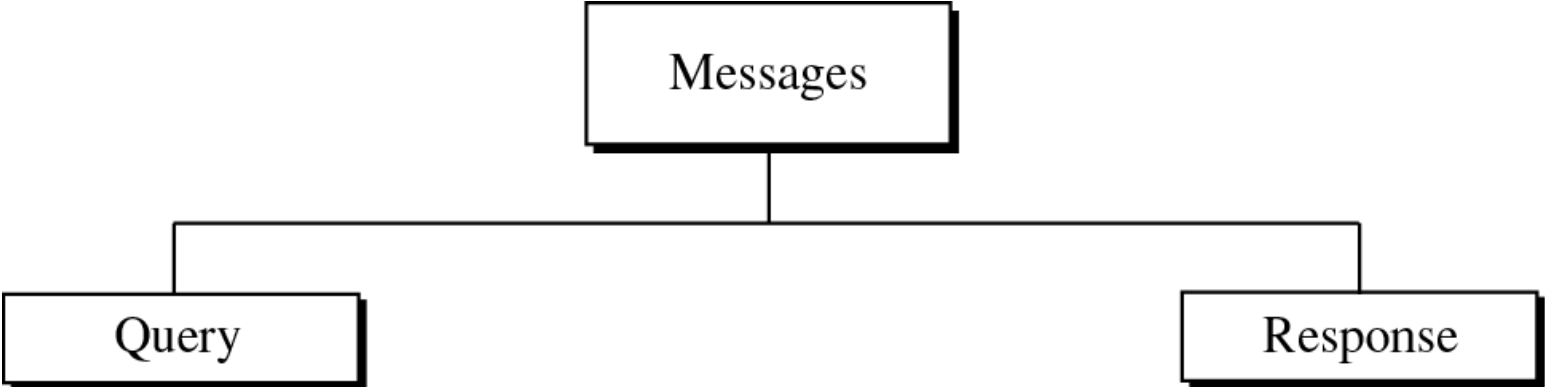


Figure 16-14

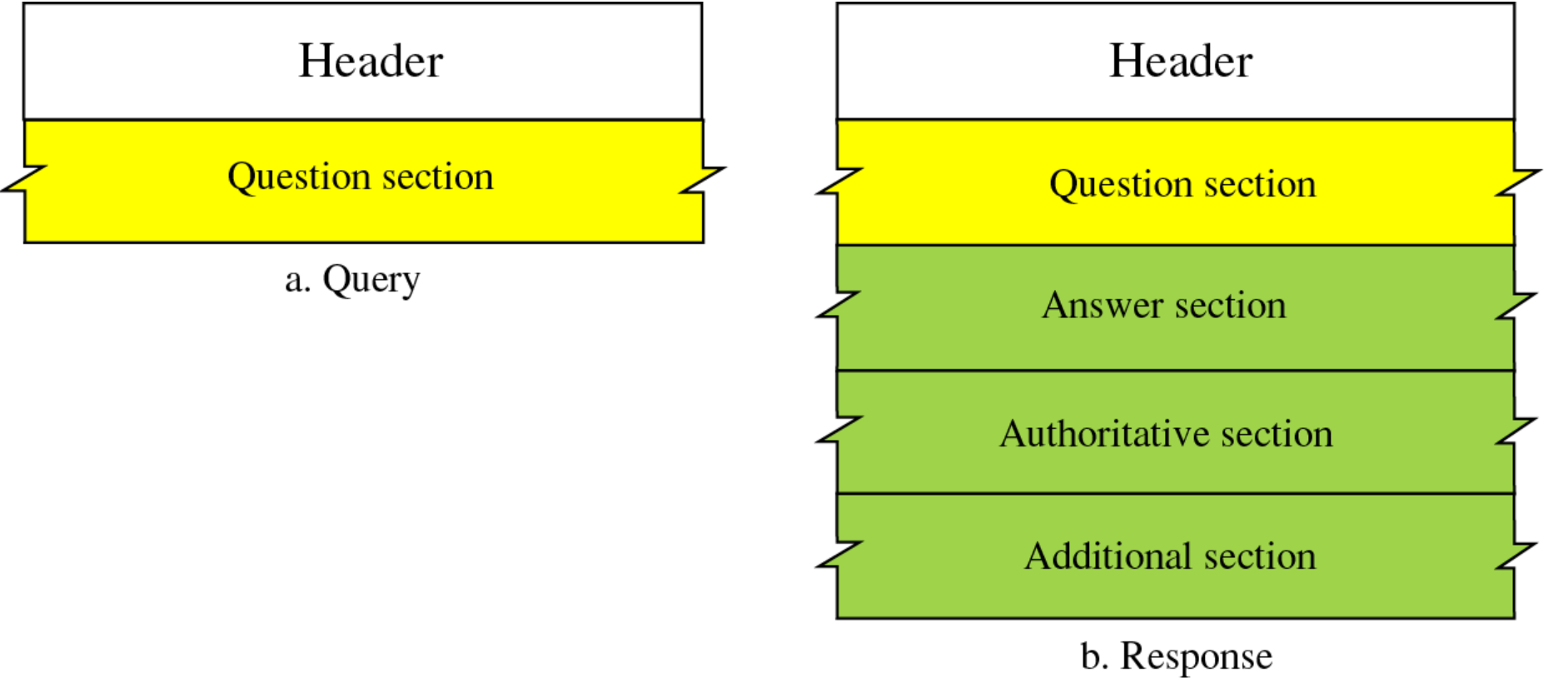


Figure 16-15

Identification	Flags
Number of question records	Number of answer records (All 0s in query message)
Number of authoritative records (All 0s in query message)	Number of additional records (All 0s in query message)



Figure 16-16



Figure 16-17

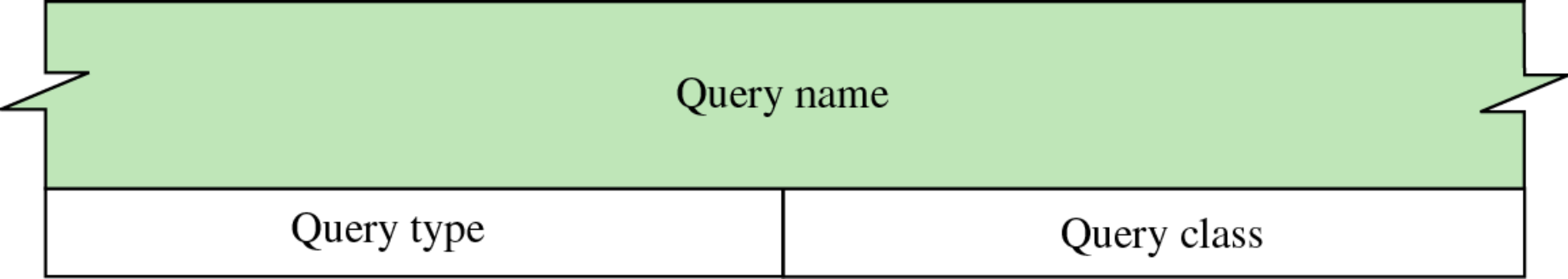


Figure 16-18

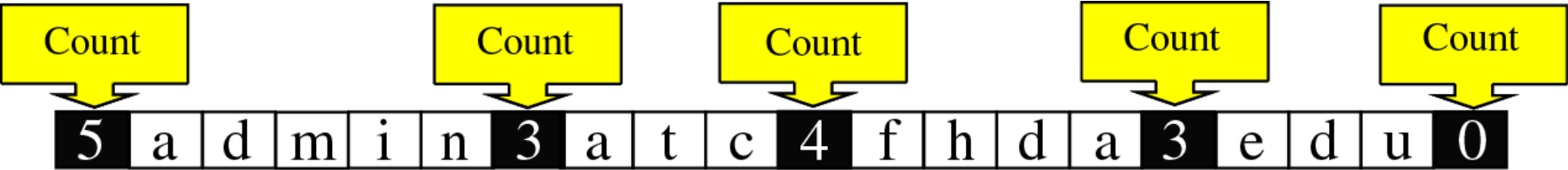


Figure 16-19

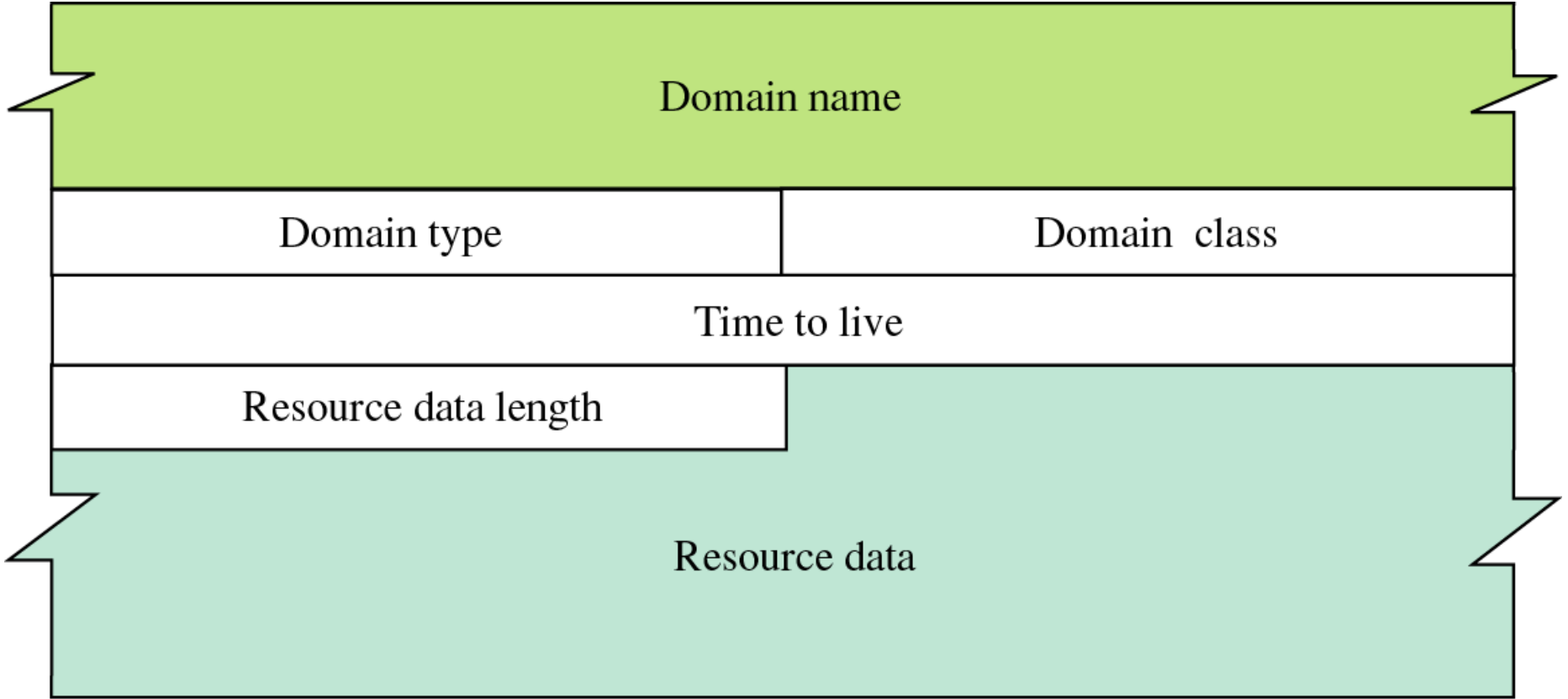


Figure 16-20

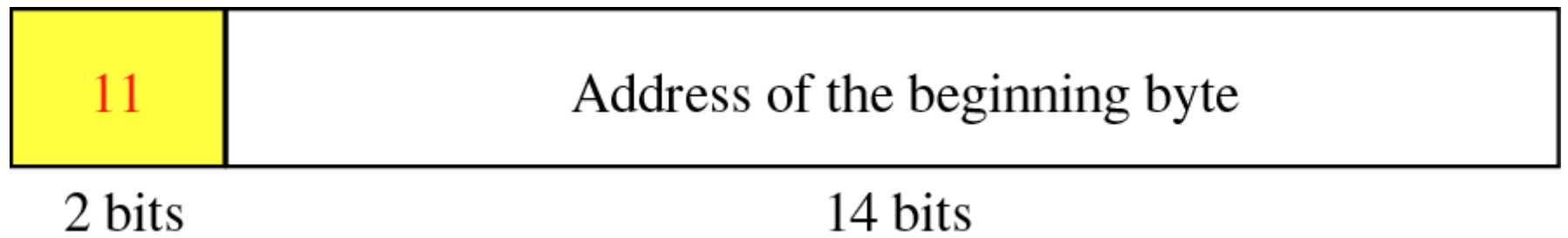


Figure 16-21

0x1333		0x0100	
1		0	
0		0	
4	'c'	'h'	'a'
'l'	4	'f'	'h'
'd'	'a'	3	'e'
'd'	'u'	0	Continued on next line
1	1		

Figure 16-22

0x1333		0x8180	
1		1	
0		0	
4	'c'	'h'	'a'
'l'	4	'f'	'h'
'd'	'a'	3	'e'
'd'	'u'	0	Continued on next line
1	1	0xC0	
0x0C	1	Continued on next line	
1	12000		Continued on next line
	4	153	
18	8	105	

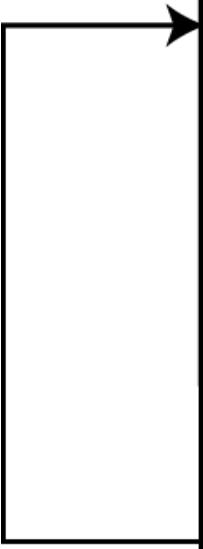


Figure 16-23

0x1200		0x0900	
1		0	
0		0	
1	'9'	1	'7'
1	'2'	3	'1'
'5'	'3'	7	'i'
'n'	'_'	'a'	'd'
'd'	'r'	4	'a'
'r'	'p'	'a'	0
12		1	



Figure 16-24

0x1200		0x8D80	
1		1	
0		0	
1	'9'	1	'7'
1	'2'	3	'1'
'5'	'3'	7	'i'
'n'	'.'	'a'	'd'
'd'	'r'	4	'a'
'r'	'p'	'a'	0
12		1	
0xC00C		12	
1		Continued on next line	
24000		10	
4	'm'	'h'	'h'
'e'	3	'c'	'o'
'm'	0		

