Networks Hw7

Problem	A	
a.)	Prefix	link
	11100000 00	0
	11100000 01000000	1
	1110000	2
	Otherwise	3
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b.) The Prefix of addresses is matched to a link in the table

- First address is a match to otherwise, so link 3

- Second address is a match for link 1

- Third address is a match for link 2

Problem B.						
	1100 0000 -	0	37 addresses			
	1110 0000 -	1	64 addresses			
	1110 0000 -	2	32 addresses			
	0000 0000 -	3	128 addresses			

Problem C. 2400 bytes = datagrams, 700 bytes = MTV, id=422, IP header = 20 bytes

Problem D. 134.39.176.0/22 Subnet bits 176

1 1100 0010 = 450, need 4 host bits

Subnet 1 = 134.39.176.0/23 -> 511 addresses > 450
134.39.178.0/24 -> 255 addresses, > 200
134.39.179.0/24 -> 255 addresses, > 160

Problem E

224.0.0.0/10	10
224.64.0.0/16	1
224.0.0.0/7	2
225.128.0.019	3