

SUBNETTING MADE EASY

CLASSFUL ADDRESSING CLASS "C" ADDRESS

***Frank Schneemann MS EdTech
Cisco Netacad***

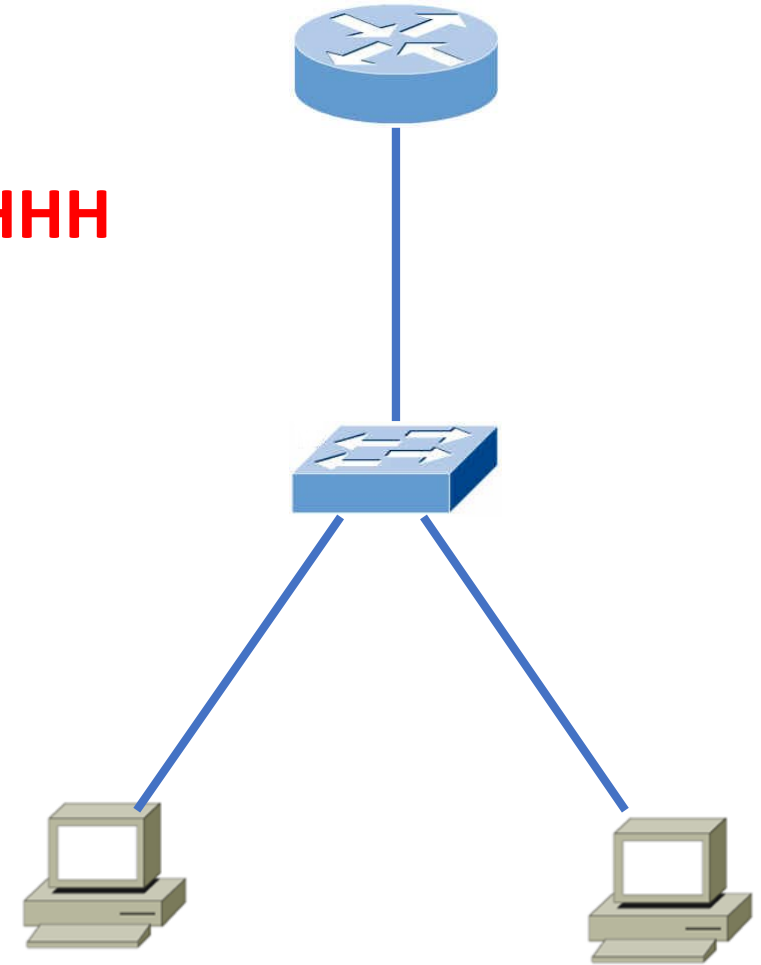
CLASS C ADDRESS

192.168.20.0

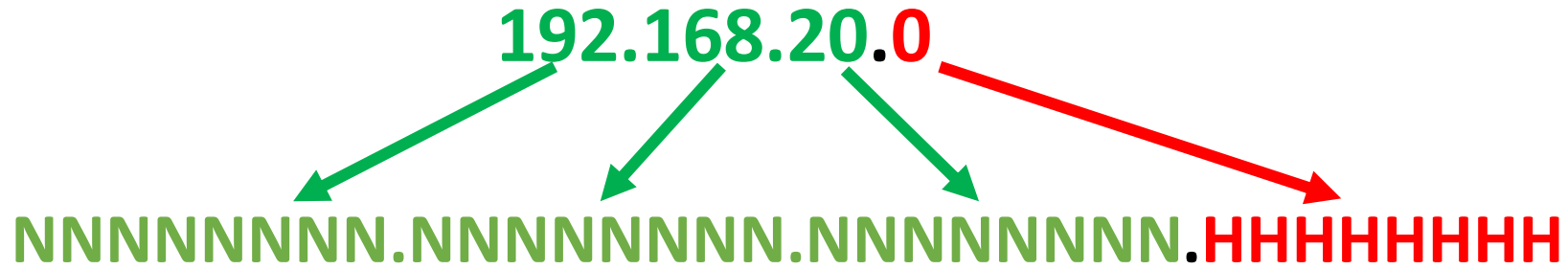
NNNNNNNN.NNNNNNNN.NNNNNNNN.HHHHHHHH

1	2	3
(2)	(4)	(8)
1	10	000
0	01	111
	11	001
	00	etc

8 BITS =
256
COMBINATIONS
OR ADDRESSES



HOST BITS

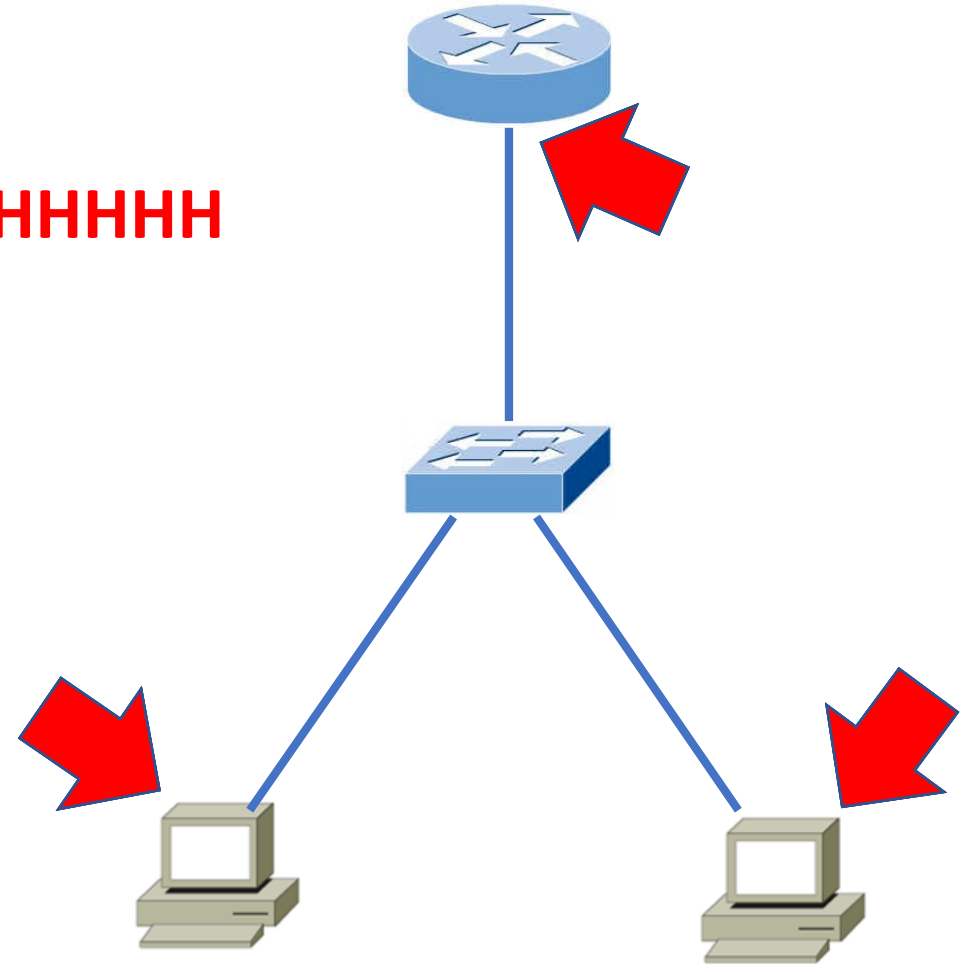


8 BITS WILL EQUAL 256 ADDRESSES

- FOR PORTS ON THE ROUTER
- FOR DEVICE ADDRESSES

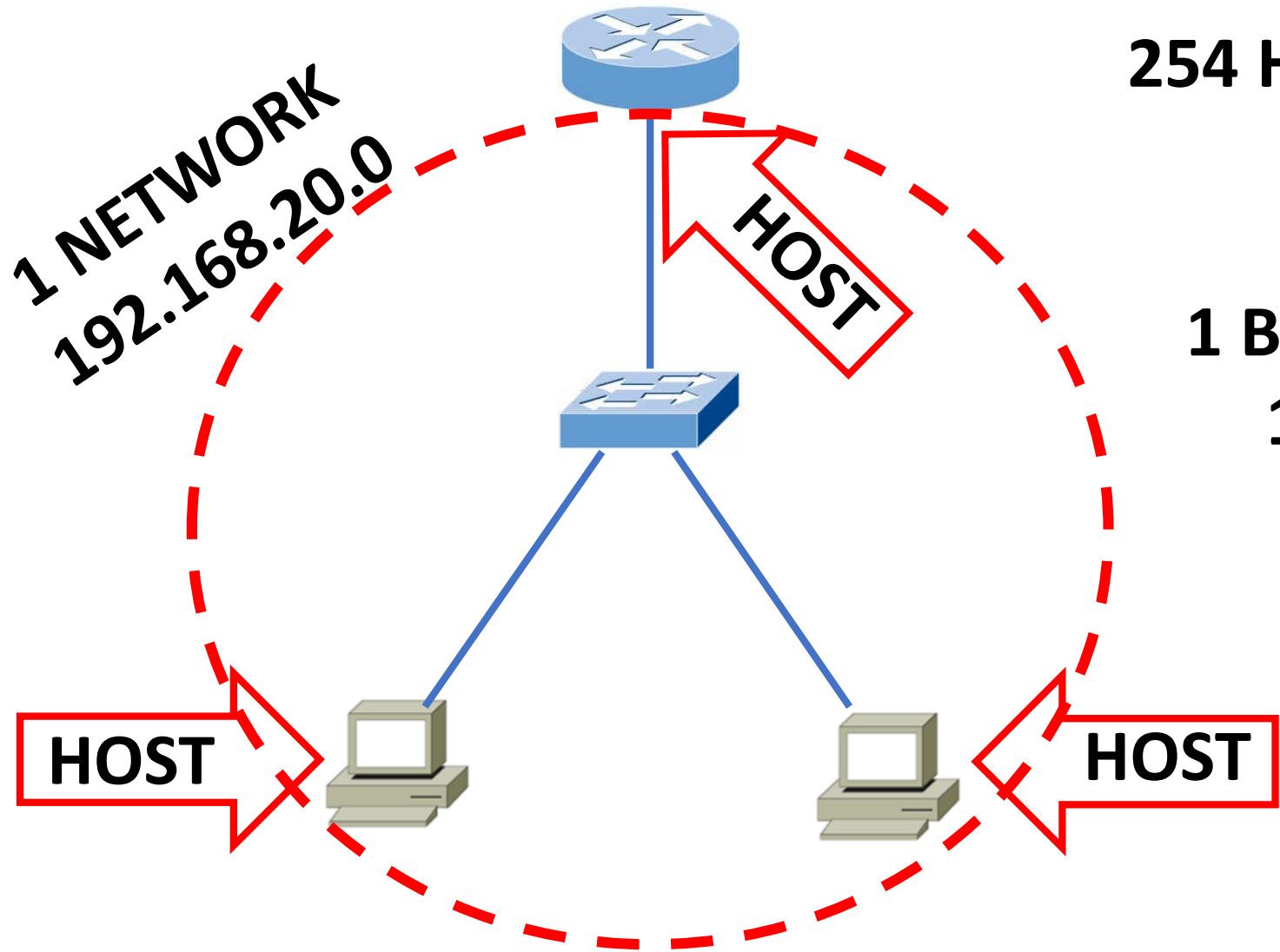
also for

- FOR NETWORK ADDRESSES
- FOR BROADCAST ADDRESSES



192.168.20.0

NNNNNNNN.NNNNNNNN.NNNNNNNN.HHHHHHHH

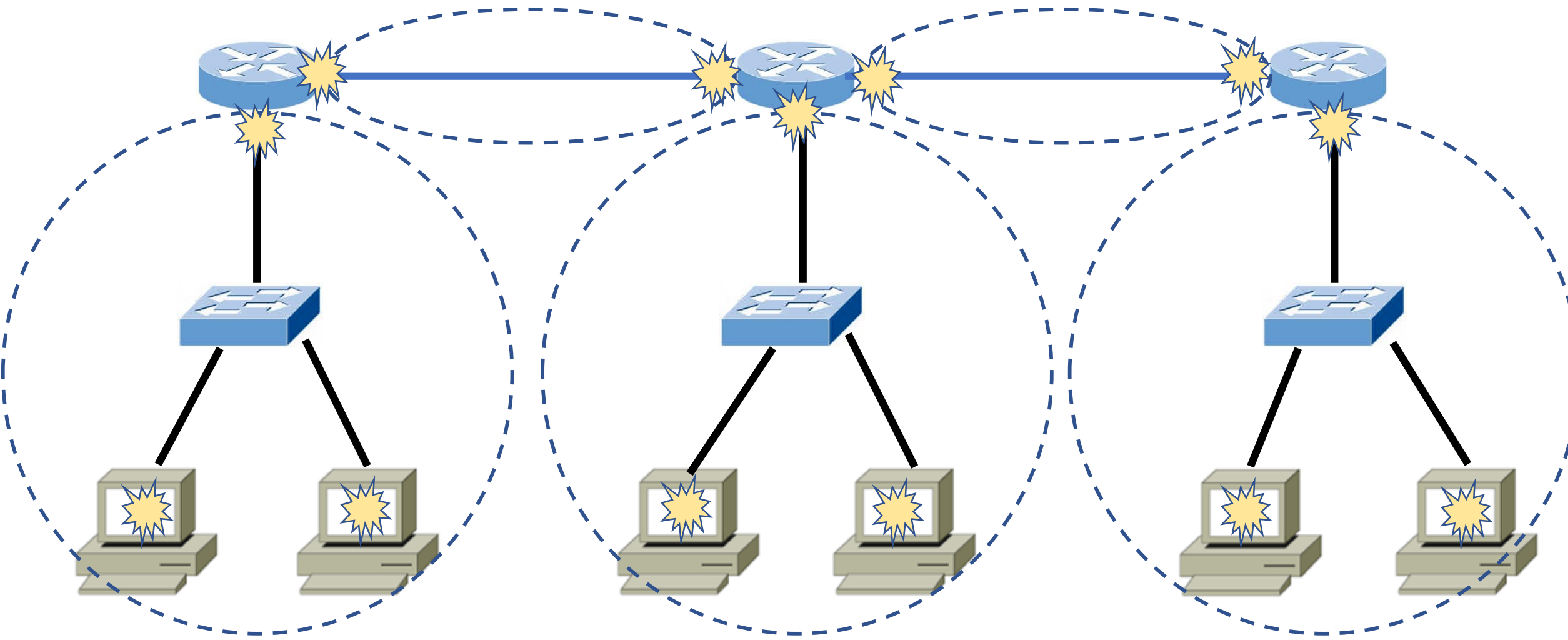


254 HOST ADDRESSES

1 BROADCAST ADDR
192.168.20.255

192.168.20.0

NNNNNNNN.NNNNNNNN.NNNNNNNN.HHHHHHHH



192.168.20.0

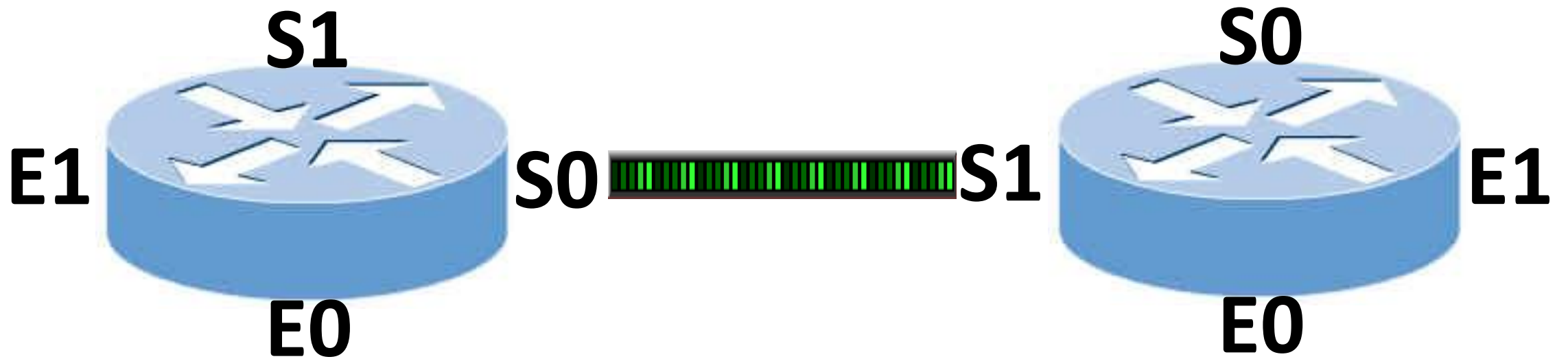
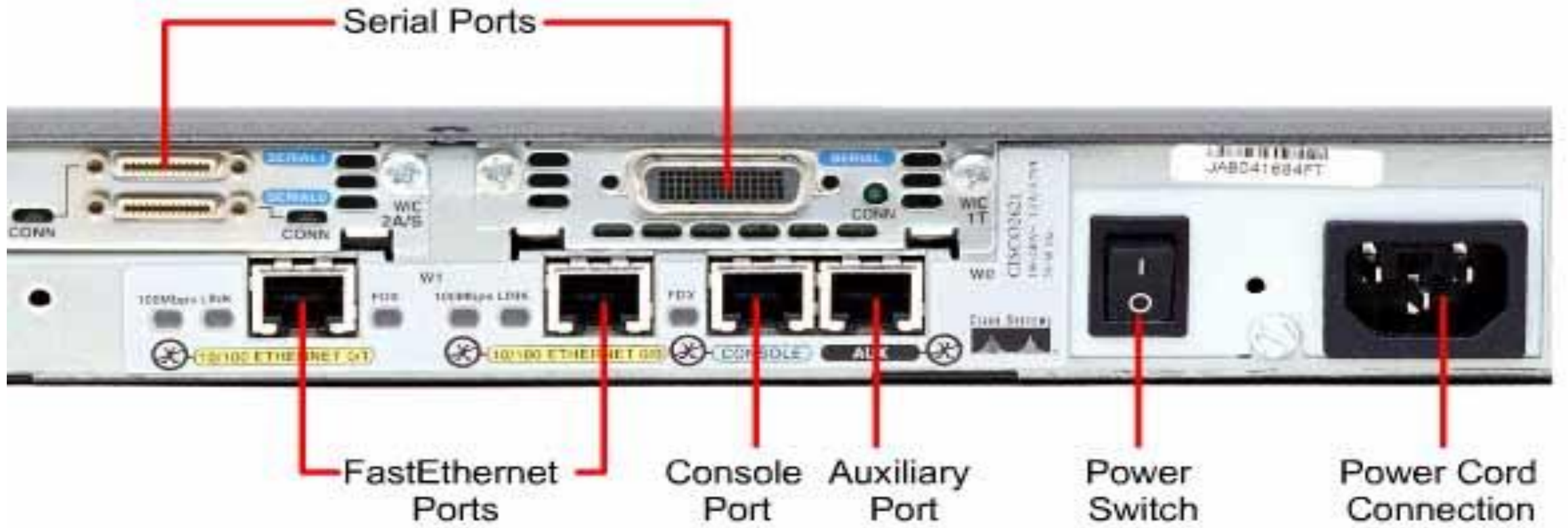
BORROW 3
= 8 SUBNETS

5 BITS LEFT
= 32 HOSTS EACH SN

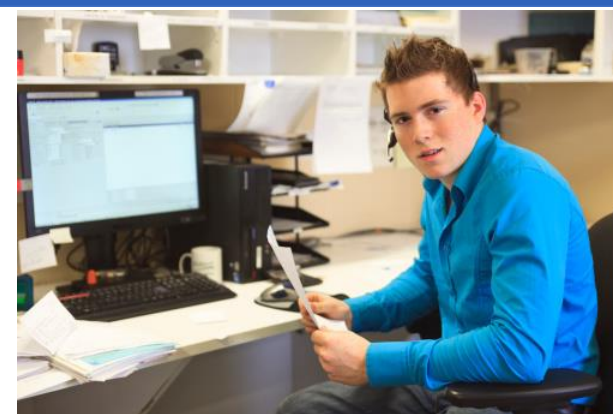
NNNNNNNN.NNNNNNNN.NNNNNNNN.NNNHHHHH

0
32
64
96
128
160
192
224

SUBNET ADDRESS	HOST ADDR	BROADCAST ADDR
192.168.20.0	192.168.20.1 TO 192.168.20.30	192.168.20.31
192.168.20.32	192.168.20.33 TO 192.168.20.62	192.168.20.63
192.168.20.64	192.168.20.65 TO 192.168.20.94	192.168.20.95
192.168.20.96	192.168.20.97 TO 192.168.20.126	192.168.20.127
192.168.20.128	192.168.20.129 TO 192.168.20.158	192.168.20.159
192.168.20.160	192.168.20.161 TO 192.168.20.190	192.168.20.191
192.168.20.192	192.168.20.193 TO 192.168.20.222	192.168.20.223
192.168.20.224	192.168.20.225 TO 192.168.20.254	192.168.20.255

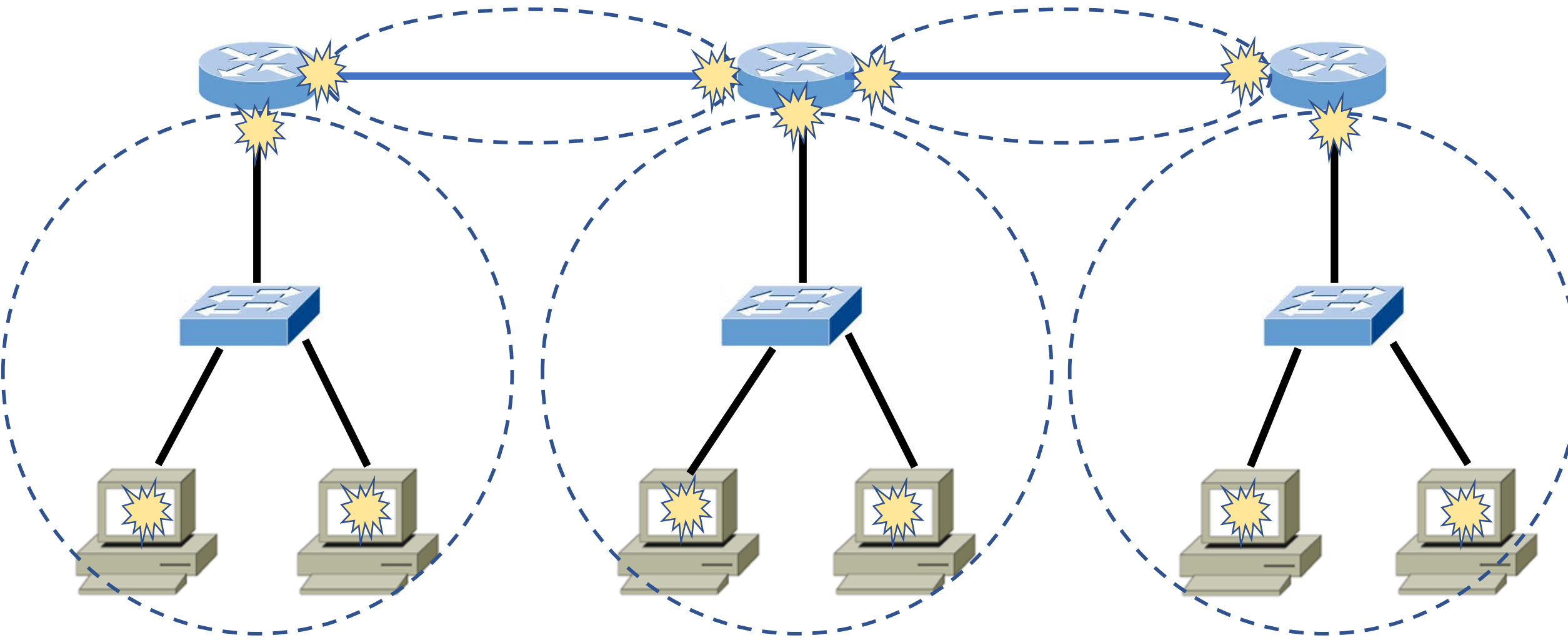


Now it's your turn.



210.15.15.0

NNNNNNNN.NNNNNNNN.NNNNNNNN.HHHHHHHH



Thank you!



