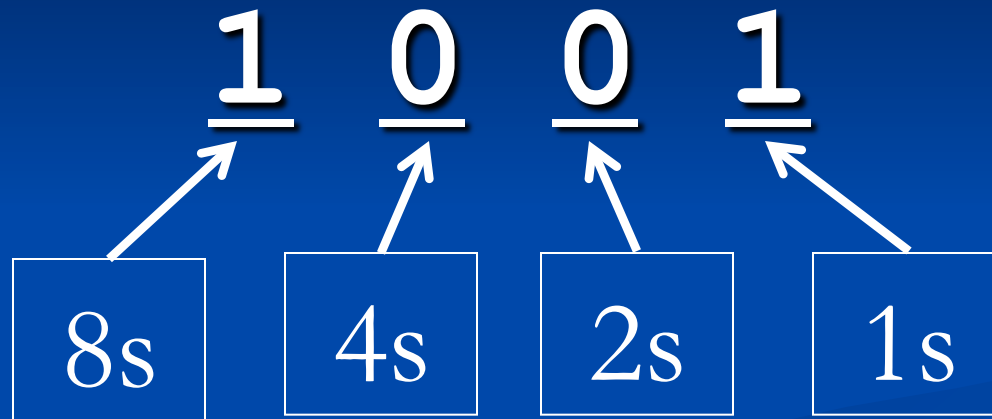


Binary Lesson 8a
IPv6 Addresses:
Hexadecimal

Counting to 15

Base Two	Base Ten	Base 16 (Hex)	Base Two	Base Ten	Base 16 (Hex)
0	0	0	1000	8	8
1	1	1	1001	9	9
10	2	2	1010	10	A
11	3	3	1011	11	B
100	4	4	1100	12	C
101	5	5	1101	13	D
110	6	6	1110	14	E
111	7	7	1111	15	F

Four Bits Make a Nybble



- A nybble can be represented by one hexadecimal digit
- Values from 0 to 15, or 0 to F

IPv6 Address

fe80:0000:0000:0000:462a:60ff:fef6:0278

- **8 fields, each containing 16 bits**
- **Each field has 4 hexadecimal characters, representing 4 bits each**
- **fe80 = 1111 1110 1000 0000**
- **462a = 0100 0110 0010 1010**