Practice Problem 2.1 (solution page 179)

Perform the following number conversions:

A. **0x25B9D2** to binary

B. binary 1010111001001001 to hexadecimal

C. **0xA8B3D** to binary

D. binary 11001000101101100101l0 to hexadecimal

Hex digit	0	1	2	3	4	5	6	7
Decimal value	0	1	2	3	4	5	6	7
Binary value	0000	0001	0010	0011	0100	0101	0110	0111
Hex digit	8	9	A	B	C	D	E	F
Decimal value	8	9	10	11	12	13	14	15
Binary value	1000	1001	1010	1011	1100	1101	1110	1111

Figure 2.2 **Hexadecimal notation.** Each hex digit encodes one of 16 values.

A. 0x 2 5 B 9 D 2

0010 0101 1011 1001 1101 0010

B. 1010 1110 0100 1001

0x A E 4 9 ← need to start from the right

C. 0x A 8 B 3 D

1010 1000 1011 0011 1101

D. 0011 0010 0010 1101 1001 0110

0x 3 2 2 D 9 6 ←