Practice Problem 2.6 (solution page 181)

Using **show_int** and **show_float**, we determine that the integer 2607352 has hexadecimal representation **0x0027C8F8**, while the floating-point number 3510593.0 has hexadecimal representation **0x4A1F23E0**.

- A. Write the binary representations of these two hexadecimal values.
- B. Shift these two strings relative to one another to maximize the number of matching bits. How many bits match?
- C. What parts of the strings do not match?

Hex digit	0	1	2	2	4	5	6	7
		1	2	3		5		
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	В	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,	0 0 0 0 0 0 0	000000	C 8	000
	0 x 4 A A A A A A A A A A A A A A A A A A	000011	2 3	E 0
β.	000000000000000000000000000000000000000	1110000	11001000	000000
С,	Only the most significan	of 7 bit of the into	gers not in the	floating point Admber.