

Homework#1

Floating point number

1. Find the decimal equivalent of the following IEEE-32 bits floating point machine number.

a.

0	1	1	0	0	1	1	0	1	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
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b.

1	0	1	0	0	1	1	1	0	1	1	0	0	0	0	1	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	1
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c.

0	1	1	0	0	0	1	0	0	0	0	0	1	0	0	1	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0
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2. Find the IEEE-32 bits floating point machine number equivalent to the given decimal number.

- a. 36.589
- b. -1.2798
- c. 0.0000458

