Today's Plan

1. Course evaluations
   - ⇒ Hard copy (course tools)
   - ⇒ Class climate (online)
2. Review / QA on final Exam
3. Anything else you may have.

Final Exam

⇒ Monday of exam week

11:00 - 13:00

? Here ?

Convert to binary

9.125 ⇒ 1001.001

9 − 3.625 ⇒

2 | 9
4 R1
2 R0
1 R0
0 R1

1001 → 11,101

Binary

Floating Point

.5 .125 0
.25 0
.125 1

.5 .625 1
−.5
.125 0
.25 1

Making Floating Point #'s

IEEE 754

Normalize

1.001001×2^3

1.1101×2^1

Scientific Notation

bias ⇒ 127

130

IEEE Floating point

S	Exponent	Fraction
1bit	8bits	23 bits
0	10000010	001 001 00000000000000
1	10000000	1101 00000000000000

Add the #'s

First Step! Set up the same exponents.

1.001001×2^{3}

$+ -1.1101 \times 2^{1 \Rightarrow 3}$

1.001001×2^{3}

-0.011101×2^{3}

0.101100×2^{3}

~~Not Normalized~~

1.011100×2^{2}

1011.01×2^{0}

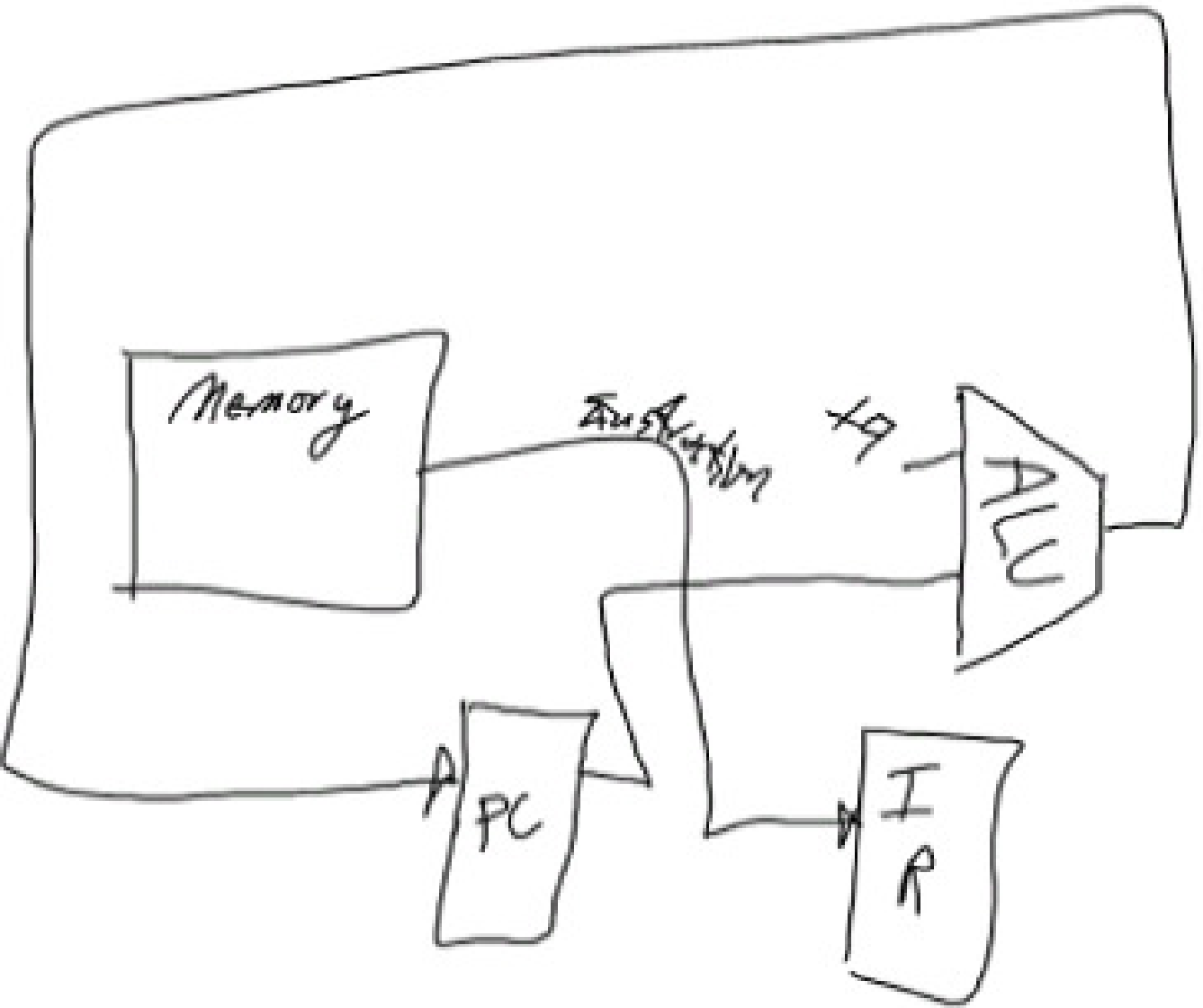
5.5

Answer

9.125

− 3.625

5.500


Memory
ALU
PC
IR

Others?

Have a donut on the way out.

See you Monday