Quiz 1 SAMPLE

Note: This *should* be a harder than the actual quiz.

1. Write the result of the following expressions:
   a. `((32 << 1) >> 2) & 1`   b. `0x3F | 4`

2. Write the statement declaring a pointer to an integer with the name intBuffer.

3. What the result of the following expression (where the number there is treated as _binary_)?:
`(char)(~(0b10110011) << 1)  // note, this only works in some C compilers`

4. What is the 1's complement of the binary representation of the (char) 67?

5. What is a function macro? Write one that subtracts the second number from the first.

6. Why does `main()` return an `int` by default?

7. In a number with 8 bits, labeled 0-7, how do I determine if the "3rd" bit is a 1?

8. How many bits is a single pixel in GBA mode 3?

9. Why is while(1) not a heinous sin in our GBA programs?

10. What is the bit representation of the color magenta in Mode 3 on the GBA?

11. Use array notation to simplify the following expression: `*((short*)shortBuffer + 8) = 3;`