CSCI 211 Spring 2009
Quiz 4
Assigned Monday, 09-02-02

1. Convert 100_{10} to binary. Represent your result as an 8-bit 2's complement number. Call the result a. **Answer:** 01100100

2. Convert 30_{10} to binary. Represent your result as an 8-bit 2's complement number. Call the result b. **Answer:** 00011110

3. Find the 2's complement of b. Call is $b*$. **Answer:** 11100010

4. Do $a - b$ by summimg a and $b*$. **Answer:** 010000110 (check: 70 decimal)

5. Do $a + b$. Is there an overflow? How can you tell? **Answer:** Yes. The sign of the result is different from the common sign of the addends.