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Homework 1, Spring 2019

- 1. (60 points total, 10 points each) Determine the result in both decimal and binary format and C and V flags of the following calculations for a 5-bit system using the C and V flag convention of an ARM processor:
 - a. (-16) + (-16)
 - b. 14 (-16)
 - c. 14 16
 - d. 15 (-6)
 - e. 15 + (-6)
 - f. 14 + (-16)
- 2. (30 points total, 5 points each) Write the C code to perform the following operations assuming A is a uint16_t variable:
 - a. $A = 0xH_3H_2H_1H_0 \Rightarrow A = 0xH_3H_20H_0$
 - b. $A = 0xH_3H_2H_1H_0 \Rightarrow A = 0xH_3H_2FH_0$
 - c. $A = 0xH_3H_2H_1H_0 \Rightarrow A = 0xH_3H_26H_0$
 - d. $A = 0xH_3H_2H_1H_0 \Rightarrow A = 0xH_3H_29H_0$
 - e. A = $0xH_3H_2H_1H_0 \Rightarrow$ A = $0xH_3H_2\bar{H_1}H_0$ where $0x\bar{H_1}=15-0xH_1$
 - f. $A = 0xH_3H_2H_1H_0 \Rightarrow A = 0x0H_3H_2H_1$

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