

Chapter 2 – Signed Numbers Range

Please complete the assignments listed (with modifications as indicated) and **submit your work via blackboard**. Show your work to get credit.

CB- Course Book

1. CB, Chapter 2, Exercise 24 - Using a “word” of 3 bits, list all the possible signed binary numbers and their decimal equivalents that are representable in:
 - a) Signed magnitude
 - b) One’s complement
 - c) Two’s complement
2. CB, Chapter 2, Exercise 25 – repeat the previous question using a “word” of 4 bits
3. CB, Chapter 2, Exercise 26 - From the results of the previous two questions, generalize the range of values (in decimal) that can be represented in any given x number of bits the three number representations.