## HomeWork2 Z2

## **Outline Chapter Z3**

## Exercises

Assume the RIMS environment for all exercises below.

2. Write a C program that treats A1A0, A3A2, and A5A4 as three 2-bit unsigned binary number. The program should output the sum of those three numbers onto B. Use shift on A input to position each bit pattern for generating sum. Therefore example

ASnap = A; A5A4 = (ASnap >> 4) & 0x03; // 2 bits are either 0,1,2, or 3 and Sum = A5A4 + A3A2 + A1A0;

4. Write C statements that set B to the reverse complement of A, such at B7 =  $\sim$ A0, B6 =  $\sim$ A1, etc.

Rather than writing 8 assignment statements, instead write a for loop that makes use of the GetBit and SetBit functions.

http://ritools.cs.ucr.edu/