## HomeWork2 Z2

## Outline Chapter Z3

## Exercises

Assume the RIMS environment for all exercises below.
2. Write a $C$ program that treats $A 1 A 0, A 3 A 2$, and $A 5 A 4$ 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 $B 7=\sim A 0, B 6=\sim A 1$, 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/
