Recitation 2

## Big endian and Little endian

- Big endian: start from low addr
- Little endian: start from high addr

Big endian					
	0x100	0x101	0x102	0x103	
	01	23	45	67	
Little endian					
	0x100	0x101	0x102	0x103	
	67	45	23	01	

## Boolean Algebra

- Bit level : ~, &, |, ^
- Logical level: &&, ||, !
- Shift operations: << , >>

Operation	Values		
Argument x	[01100011]	[10010101]	
x << 4	[00110000]	[01010000]	
x >> 4 (logical)	[00000110]	[00001001]	
x >> 4 (arithmetic)	[00000110]	[11111001]	

## Unsigned encoding

$$B2U_w(\vec{x}) \doteq \sum_{i=0}^{w-1} x_i 2^i$$

