Homework1

Homework1

- 题目 1

Fill in the table below

Binary	Octal	Decimal	Hexadecimal
101 0101 0110			
	777		
			0x1c5
		2015	
	2015		

Homework1

- 题目 2
  - Given A and B with hexadecimal expression 0x7F and 0xBA respectively. Calculate the values of the following expressions.
  - a) A&B
  - b) A|B
  - c) A^B
  - d) ~A|~B
  - e) A&&B
  - f) A||B

Homework1

- 题目 3
  - Design C expressions using bitwise (& | ~ ^) and logical (&& || !) operators, which return 1 under the specific conditions described below, otherwise return 0.
    - a) all bits of x are 1.
    - b) all bits of x are 0.
    - c) bits of x’ s least significant byte are 1.
    - d) bits of x’ s least significant byte are 0.

Homework1

- 題目 4
  - Design a C expression, which generates a word (32-bit) consisting of the lower 16 bits of x and the remaining bits of y.
  - For example, x = 0x89ABCDEF and y = 0x76543210, it will generate 0x7654CDEF