

Homework: 位运算

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- 题目1

Fill in the table below

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

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- 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) $A \wedge B$
 - d) $\sim A | \sim B$
 - e) $A \& \& B$
 - f) $A || B$

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- 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.

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- 题目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