

## Problem 2.1

- char  
1字节, 1字节
- unsigned char  
1字节, 1字节
- short  
2字节, 2字节
- int  
4字节, 4字节
- unsigned int  
4字节, 4字节
- unsigned long  
至少4字节, 至少4字节
- float  
4字节, 4字节

```
char size: 1
char min: -128
char max: 127
unsigned char size: 1
unsigned char min: 0
unsigned char max: 255
short size: 2
short min: -32768
short max: 32767
int size: 4
int min: -2147483648
int max: 2147483647
unsigned int size: 4
unsigned int min: 0
unsigned int max: 4294967295
unsigned long size: 8
unsigned long min: 0
unsigned long max: 18446744073709551615
float size: 4
float min: 1.175494e-38
float max: 3.402823e+38
```

## Problem 2.2

- `c >= 'a' && c <= 'z'`
- `c >= 'A' && c <= 'Z'`
- `c >= '0' && c <= '9'`
- `c == ' ' && c == '\t' && c == '\n'`

### Problem 2.3

- `(val & 0x0E) || (val & 0x0D) || (val & 0x0F) || (val & 0x0B) || (val & 0x07)`
- `((val & 0xFF) << 8) | (val >> 8)`
- `((val & 0x0F) << 12) | (val >> 4)`

### Problem 2.4

- `c = (x & (MASK == 0))`
- `z = (x++) + (++y) * 2`
- `y >>= ((x & 0x2) && z)`

### Problem 2.5

- 错误，变量名不能以数字开头
- 不太明白本题的意思
- true
- 错误，==的优先级高于&