Lesson 11. C Programming (Important Question Set 1)

Q1

what is the output of the following C program frament?

- %s is used to print "string of characters."
- printf not only prints the content on the screen. It also returns the number of characters that it successfully prints on the screen (返回在屏幕上成功打印的字符数)

```
"E:\C Programming & Data St \times + \vee Hello World!12 Process returned 0 (0x0) execution time : 0.273 s Press any key to continue.
```

Q2

what is the output of the following C program frament?

• %10s 意味着打印最多10个字符宽的字符 Hello 只有5个字符,所以会先补充5个空格,然后打印其余5个字符

```
ভৌ "E:∖C Programming & Data St
Hello
     Hello
Process returned 0 (0x0) execution time : 0.241 s
Press any key to continue.
```

Q3

```
Q3: what is the output of the following C program fragment:
    int main() {
        char c = 255;
        c = c + 10;
        printf("%d", c);
        return 0;
    }
     a) 265
     b) Some character according to ASCII table
     c) 7
     d) 9
```

A: d) Lsson 9 有相关知识 算了, 我还是决定再解释一遍

char是占 1 byte 也就是 8 bits ,最多能容纳的是 28-1 = 255 (unsigned), range: 0~255 255 + 10 相当于 -1+10 = 9 (回想那个圆时钟)

04

Which of the following statement/statements is/are correct corresponding to the definition of integer?

(以下哪一个陈述/哪些陈述与整数的定义相对应是正确的?)

```
I. signed int i;
                                            a) Only I and V are correct
II. signed i;
                                            b) Only I is correct
III. unsigned i;
                                            c) All are correct
IV. long i;
                                            d)
                                                Only IV, V, VI are correct
V. long int i;
    long long i;
VI.
```

singned/unsigned 是修饰符,int是数据类型,int i; 和 signed int i; 是等价的

Because integer is implicitly assumed. (因为整数是隐式假设的) 所以 signed i; 等价于signed int i; 类似的 unsigned i; 等价于 unsigned int i; Q5

Q5: What does the following program fragment prints?

```
int main() {
    unsigned i = 1;
    int j = -4;
    printf("%u", i+j);
    return 0;
}
```

- a) garbage
- b) -3
- c) Integer value depends from machine to machine
- d) None of the above

A: c)