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(1) 给出下列程序段中变量 b 的值(仿照 PDF 的 P. 20-26 给出分析)

```
A. short a=32000;
  short b=a+2000:
a = 011111101 \ 000000000 = 32000
b = 10000100 \ 11010000 = 32000 \ - \ 2 * 32768 = -31536
B. unsigned short a=50000;
 short b=a;
a = 11000011 \ 01010000 = 50000
b = 11000011 \ 01010000 = 50000 - 2 * 32768 = -15536
C. short a=-1025;
 int b=a;
       填充符号位
                     111111011 \ 111111111 = -1025
D. unsigned short a=50000;
 int b=a;
        填充 0
                     11000011 01010000 = 50000
a =
b = 00000000 \ 00000000 \ 11000011 \ 01010000 = 50000
E. int a=80000;
 short b=a;
a = 00000000 \ 00000001 \ 00111000 \ 10000000 = 80000
                     00111000 \ 10000000 = 80000 - 65536 = 14464
b =
F. long a=-100;
 unsigned short b=a;
a = 111111111 111111111 111111111 100111100 = -100
                     111111111 \ 100111100 = -100 + 65546 = 65436
b =
```

(2) P. 40 习题 5 (每小题均要求按计算顺序给出每步的步骤)

$$3.5 * 3 + 2 * 7 - 'a'$$

= 10.5 + 2 * 7 - 'a'

$$= 10.5 + 14 - 'a'$$

$$= -72.5$$

2

$$= 8 + 34 \% 3 + 2.5$$

$$= 8 + 1 + 2.5$$

$$= 9 + 2.5$$

$$= 11.5$$

3

$$= 22 + (int) 3.14159 / 2$$

$$= 22 + 3 / 2$$

$$= 22 + 1$$

4

$$a = b = (c = a += 6)$$

$$= a = b = (c = 9)$$

$$= a = b = 9$$

$$= a = 9$$

(5)

$$a = 3 * 5$$
, $a = b = 3 * 2$

$$= a = 15, a = b = 3 * 2$$

```
= 15, a = b = 3 * 2
= 15, a = b = 6
= 15, a = 6
= 15, 6
= 6
  (int)(a + 6.5) \% 2 + (a = b = 5)
= (int) 9.5 \% 2 + (a = b = 5)
= 9 \% 2 + (a = b = 5)
= 1 + (a = b = 5)
= 1 + (a = 5)
= 1 + 5
= 6
  7
 x + a \% 3 * (int) (x + y) \% 2 / 4
= x + 1 * (int) (x + y) % 2 / 4
= x + 1 * (int) (7.2) % 2 / 4
= x + 1 * 7 \% 2 / 4
= x + 7 \% 2 / 4
= x + 1 / 4
= x + 0
= 2.5
  8
  (float)(a + b) / 2 + (int)x \% (int)y
= (float) 5 / 2 + (int) x \% (int) y
= 5.0 / 2 + (int)x \% (int)y
= 2.5 + (int)x \% (int)y
= 2.5 + 3 \% (int) y
= 2.5 + 3 \% 2
= 2.5 + 1
```

P. 40 习题 6 (每小题均要求按计算顺序给出每步的步骤) (3)

(1)

$$a = 3$$

 $a = a - 3$ $-=$ 展开 $a = 12 - 3$ $a = 9$
 $a = 9$

3

a = 60

4

$$a /= a + a$$

$$a = a / 24$$
 /= RT $a = 12 / 24$ $a = 0$

//a 为整形变量 a = 0

(5)

$$a = (n = 1)$$
 赋值 $sn = 1$ $a = 12$

$$a = 0$$

6

$a^{+}=a^{-}=a*=a$

$$a+=a-=(a=144)$$
 赋值 $a=144$ $a=144$

a+=(a=a-144)	-=优先级高	144 - 144	a = 144
a+=(a=0)	赋值	a = 0	a = 0
a+=0	+=展开	a = a + 0	a = 0
a=a+0	+运算	a = a + 0	a = 0
a = 0			

(4) 已知 int b=7; double a=2.5, c=4.7; 写出表达式 a+(int)(b/3*(int)(a+c)/2)%4 最后的结果并说明其数据类型是实型还是整型(要求按计算顺序给出每步的步骤)。

(5) 已知 int m=5, y=21; 则表达式 y+=y-=m*=y 执行后, y 的值是多少?(要求按计算顺序给出每步的步骤)

【作业要求:】

- 1、10月18日前网上提交本次作业,本文件转换为2-b2.pdf后提交即可
- 2、每题所占平时成绩的具体分值见网页
- 3、超过截止时间提交作业会自动扣除相应的分数,具体见网页上的说明