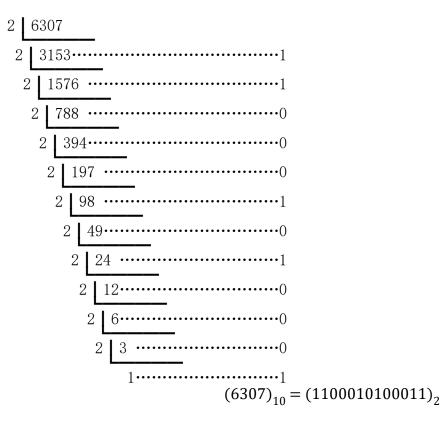
【要求:	1.	十进制转其它进制,	必须列出竖式	(含小数计算,	Word 排版,	不允许手写拍照)
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- 2、十进制转二进制小数,如积的小数部分不为0,至少要计算到二进制小数点后8位
- 3、其它进制转换,必须写清楚具体步骤(参考文档)
- 4、注意排版格式,上下标等设置等
- 5、可直接在本文档上完成作业

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(1) 十进制转二进制

A. 6307



B. 73692

```
      2
      73692

      2
      36846
      0

      2
      18423
      0

      2
      9211
      1

      2
      4605
      1

      2
      2302
      1

      2
      1515
      0

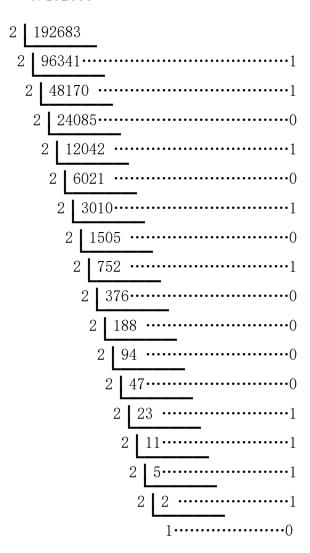
      2
      575
      1

      2
      287
      1

      2
      143
      1
```

$$\left(73692\right)_{10} = \left(100011111111011100\right)_2$$

C. 192683



$$\left(192683\right)_{10} = \left(1011110000101010111\right)_2$$

D. 0. 0625

$$(0.0625)_{10} = (0.0001)_2$$

E. 15. 0875

	0.0875	
	2	*
	0.175	
<u></u>	2	*
	0.35	
	2	*
	0.7	
	2	*
•••••	1.4	
	2	*
••••••	0.8	
<u></u>	2	*
•••••	1.6	
<u></u>	2	*
•••••	1.2	
	2	*
••••••	0.4	

整数 15 即 十六进制下的 F 即 1111

$$(15.0875)_{10} = (1111.00010110)_2$$

F. 511. 05

$$(511.05)_{10} = (111111111.00001100)_2$$

(2) 二进制转十进制

A. 1010101

$$(1010101)_2 = 1 \times 2^6 + 1 \times 2^4 + 1 \times 2^2 + 1 \times 2^0 = 85$$

B. 1011010101111011

$$(1011010101111011)_2 = 1 \times 2^{15} + 1 \times 2^{13} + 1 \times 2^{12} + 1 \times 2^{10} + 1 \times 2^8 + 1 \times 2^6$$
$$+ 1 \times 2^5 + 1 \times 2^4 + 1 \times 2^3 + 1 \times 2^1 + 1 \times 2^0 = 46459$$

C. 11111111111

$$(111111111111)_2 = 1 \times 2^{10} + 1 \times 2^9 + 1 \times 2^8 + 1 \times 2^7 + 1 \times 2^6 + 1 \times 2^5 + 1 \times 2^4 + 1 \times 2^3 + 1 \times 2^1 + 1 \times 2^0 = 2^{11} - 1 = 2047$$

D. 100. 10101

$$(100.10101)_2 = 1 \times 2^2 + 1 \times 2^{-1} + 1 \times 2^{-3} + 1 \times 2^{-5} = 4.65625$$

E. 101101. 1111

$$(101101. 1111)_2 = 1 \times 2^5 + 1 \times 2^3 + 1 \times 2^2 + 1 \times 2^0 + 1 \times 2^{-1} + 1 \times 2^{-2} + 1 \times 2^{-3} + 1 \times 2^{-4} = 45.9375$$

F. 0. 11010111

$$(0.11010111)_2 = 1 \times 2^{-1} + 1 \times 2^{-2} + 1 \times 2^{-4} + 1 \times 2^{-6} + 1 \times 2^{-7} + 1 \times 2^{-8}$$

= 0.83984375

(3) 十进制转八进制

A. 6307

$$(6037)_{10} = (14243)_8$$

B. 73692

$$(73692)_{10} = (217734)_8$$

C. 192683

$$(192683)_{10} = (570253)_8$$

(4) 八进制转十进制

A. 37777

$$(37777)_8 = 3 \times 8^4 + 7 \times 8^3 + 7 \times 8^2 + 7 \times 8^1 + 7 \times 8^0 = 16383$$

B. 7654321

$$(7654321)_8 = 7 \times 8^6 + 6 \times 8^5 + 5 \times 8^4 + 4 \times 8^3 + 3 \times 8^2 + 2 \times 8^1 + 1 \times 8^0$$

= 2054353

C. 50703

$$(50703)_8 = 5 \times 8^4 + 7 \times 8^2 + 3 \times 8^0 = 20931$$

(5) 十进制转十六进制

A. 6307

$$(6307)_{10} = (18A3)_{16}$$

B. 73692

$$(73692)_{10} = (11FDC)_{16}$$

$$(192683)_{10} = (2F0AB)_{16}$$

(6) 十六进制转十进制

A. D1E2F3

$$(D1E2F3)_{16} = 13 \times 16^5 + 1 \times 16^4 + 14 \times 16^3 + 2 \times 16^2 + 15 \times 16^1 + 3 \times 16^0 = 13755123$$

B. FFFFFFF

$$(FFFFFFFF)_{16} = 15 \times 16^7 + 15 \times 16^6 + 15 \times 16^5 + 15 \times 16^4 + 15 \times 16^3 + 15 \times 16^2 + 15 \times 16^4 + 15 \times 16^6 + 15 \times 16^6$$

C. C5B8135E

$$(C5B8135E)_{16} = 12 \times 16^7 + 5 \times 16^6 + 11 \times 16^5 + 8 \times 16^4 + 1 \times 16^3 + 3 \times 16^2 + 5 \times 16^1 + 14 \times 16^0 = 3317175134$$

(7) 二进制转八进制

A. 1010101

$$(1010101)_2 = (001\ 010\ 101)_2 = (125)_8$$

B. 1011010101111011

$$(1011010101111011)_2 = (001\ 011\ 010\ 101\ 111\ 011)_2 = (132573)_8$$

C. 11111111111

$$(111111111111)_2 = (0111111111111)_2 = (3777)_8$$

(8) 八进制转二进制

A. 37777

$$(37777)_8 = (011\ 111\ 111\ 111\ 111)_2 = (11111111111111)_2$$

B. 7654321

$$\left(7654321\right)_{8} = \left(111\ 110\ 101\ 100\ 011\ 010\ 001\right)_{2} = \left(111110101100011010001\right)_{2}$$

C. 50703

$$(50703)_8 = (101\ 000\ 111\ 000\ 011)_2 = (101000111000011)_2$$

(9) 二进制转十六进制

A. 1010101

$$(1010101)_2 = (0101\ 0101)_2 = (55)_{16}$$

B. 10110101011111011

$$(1011010101111011)_2 = (1011\ 0101\ 0111\ 1011)_2 = (B57B)_{16}$$

C. 111111111111

$$(111111111111)_2 = (0111111111111)_2 = (7FF)_{16}$$

(10) 十六进制转二进制

A. D1E2F3

$$(\text{D1E2F3})_{16} = (1101\ 0001\ 1110\ 0010\ 1111\ 0011)_2 =$$

$$(110100011110001011110011)_2$$

B. FFFFFFF

C. C5B8135E

 $(\text{C5B8135E})_{16} = (1100\ 0101\ 1011\ 1000\ 0001\ 0011\ 0101\ 1110)_2 =$ $(110001011011110000001001101011110)_2$

(11) 八进制转十六进制

A. 37777

$$(37777)_8 = (011\ 111\ 111\ 111\ 111)_2 = (0011\ 1111\ 1111\ 1111)_2 = (3FFF)_{16}$$

B. 7654321

$$(7654321)_8 = (111\ 110\ 101\ 100\ 011\ 010\ 001)_2 =$$
 $(0001\ 1111\ 0101\ 1000\ 1101\ 0001)_2 = (1F58D1)_{16}$

C. 50703

$$\left(50703\right)_{8} = \left(101\ 000\ 111\ 000\ 011\right)_{2} = \left(0101\ 0001\ 1100\ 0011\right)_{2} = \left(5103\right)_{16}$$

(12) 十六进制转八进制

A. D1E2F3

$$(D1E2F3)_{16} = (1101\ 0001\ 1111\ 0010\ 1111\ 0011)_2 =$$
 $(110\ 100\ 011\ 111\ 001\ 011\ 110\ 011)_2 = (64361363)_8$

B. FFFFFFF

$$(FFFFFFFF)_{16} = (1111\ 111$$

C. C5B8135E

 $(\texttt{C5B8135E})_{16} = (\texttt{1100 0101 1011 1000 0001 0011 0101 1110})_2 = \\ (\texttt{011 000 101 101 110 000 001 001 101 011 110})_2 = (\texttt{30556011536})_8$

【作业要求:】

- 1、9月27日前网上提交本次作业
- 2、网上作业提交系统网址: http://10.60.102.252:7100, (同济内网) http://202.120.188.210:7100, (公网)
- 3、网页提交系统的 初始用户名及密码均为学号
- 4、登录后,按要求更改初始密码并牢记,忘记自设密码者,每次重置扣除总评分0.5分
- 5、将作业转换为 PDF 格式 (具体转换方法网上自行搜索), 改名为 1-b1. pdf 后提交即可
- 6、每题所占平时成绩的具体分值见网页
- 7、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
- 另: 因名单尚未最后确定, 网站在9.25后开通