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第一题

程序代码

```
MOV CX, 8
MOV SI, 200
MOV DI, 210
XXX1:
    MOV WORD PTR AX, [SI]
    MOV DL, 4
    DIV DL
    CMP AH, 0
    JNZ XXX2
    MOV WORD PTR DX, [SI]
    MOV WORD PTR [DI], DX
    INC DI
    INC DI
XXX2:
    INC SI
    INC SI
    DEC CX
    JNZ XXX1
INT 3
```

运行结果

运行前:

```
073F:0200
  06 00 08 00 0C 00 1F 00-A6 00 80 00 30 00 09 00
               073F:0210
  073F:0220
  073F:0230
  073F:0240
  073F:0250
  973F:0260
```

运行后:

第二题

程序代码

```
MOV CX, 4
MOV SI, 200
MOV DI, 204
ADD AL, 0
XXX:

MOV AL, [SI]
ADC AL, [DI]
DAA

MOV [SI], AL
INC SI
INC DI
DEC CX
JNZ XXX
INT 3
```

运行结果

运行前:

```
-D200
973F:0200
   56 34 82 12 78 45 23 25-00 00 00 00 00 00 00 00
                  U4..xE#%.....
   073F:0210
   073F:0220
073F:0230
   073F:0240
   073F:0250
   973F:0260
   073F:0270
```

运行后:

```
-d200
073F:0200
    34 80 05 38 78 45 23 25-00 00 00 00 00 00 00 00
                           4..8×E#%.....
073F:0210
    073F:0220
    \mathbf{00}
073F:0230
    073F:0240
    00 00 00 00 00 00 00
              00-00 00 00 00 00 00 00
073F:0250
    00
073F:0260
    00
073F:0270
```

第三题

程序代码

采用小端存放

```
MOV CX, 5
MOV SI, 204
MOV DI, 210
MOV AX, 0
XXX:

MOV DX, A
MUL DX
MOV DX, 0
MOV DL, [SI]
SUB DL, 30
ADD AX, DX

DEC SI
DEC CX
JNZ XXX
```

```
MOV [DI], AX INT 3
```

运行结果

运行前:

```
-d200
073F:0200
   35 34 33 32 31 00 <u>00 00-00 00 00 00 00 00 00 00</u>
                   54321.....
073F:0210
   073F:0220
   073F:0230
   073F:0240
073F:0250
   073F:0260
   073F:0270
```

运行后:

```
-d200
073F:0200
   35 34 33 32 31 00 00 00-00 00 00 00 00 00 00 00
                   54321.......
073F:0210
   90.....
073F:0220
   073F:0230
   00
073F:0240
   00
073F:0250
   073F:0260
   073F:0270
```

第四题

程序代码

要注意确保除法不溢出

```
MOV SI, 200
MOV DI, 210
MOV WORD PTR AX, [SI]
MOV DL, A

XXX:

DIV DL

ADD AH, 30

MOV [DI], AH

MOV AH, 0

INC DI

CMP AL, 0

JNZ XXX

INT 3
```

运行结果

运行前:

```
-d200
073F : 0200
  073F:0210
  073F : 0220
  073F:0230
  073F:0240
  073F : 0250
073F:0260
  073F:0270
```

运行后:

| -D200 | |
|-----------|--|
| 073F:0200 | 00 04 00 00 00 00 00 00-00 00 00 00 00 00 00 |
| 073F:0210 | 34 32 30 31 00 00 00 00-00 00 00 00 00 00 00 00 4201 |
| 073F:0220 | 00 00 00 00 00 00 00 00-00 00 00 00 00 0 |
| 073F:0230 | 00 00 00 00 00 00 00 00-00 00 00 00 00 0 |
| 073F:0240 | 00 00 00 00 00 00 00 00-00 00 00 00 00 0 |
| 073F:0250 | 00 00 00 00 00 00 00 00-00 00 00 00 00 0 |
| 073F:0260 | 00 00 00 00 00 00 00 00-00 00 00 00 00 0 |
| 073F:0270 | 00 00 00 00 00 00 00 00-00 00 00 00 00 0 |