

代码修改

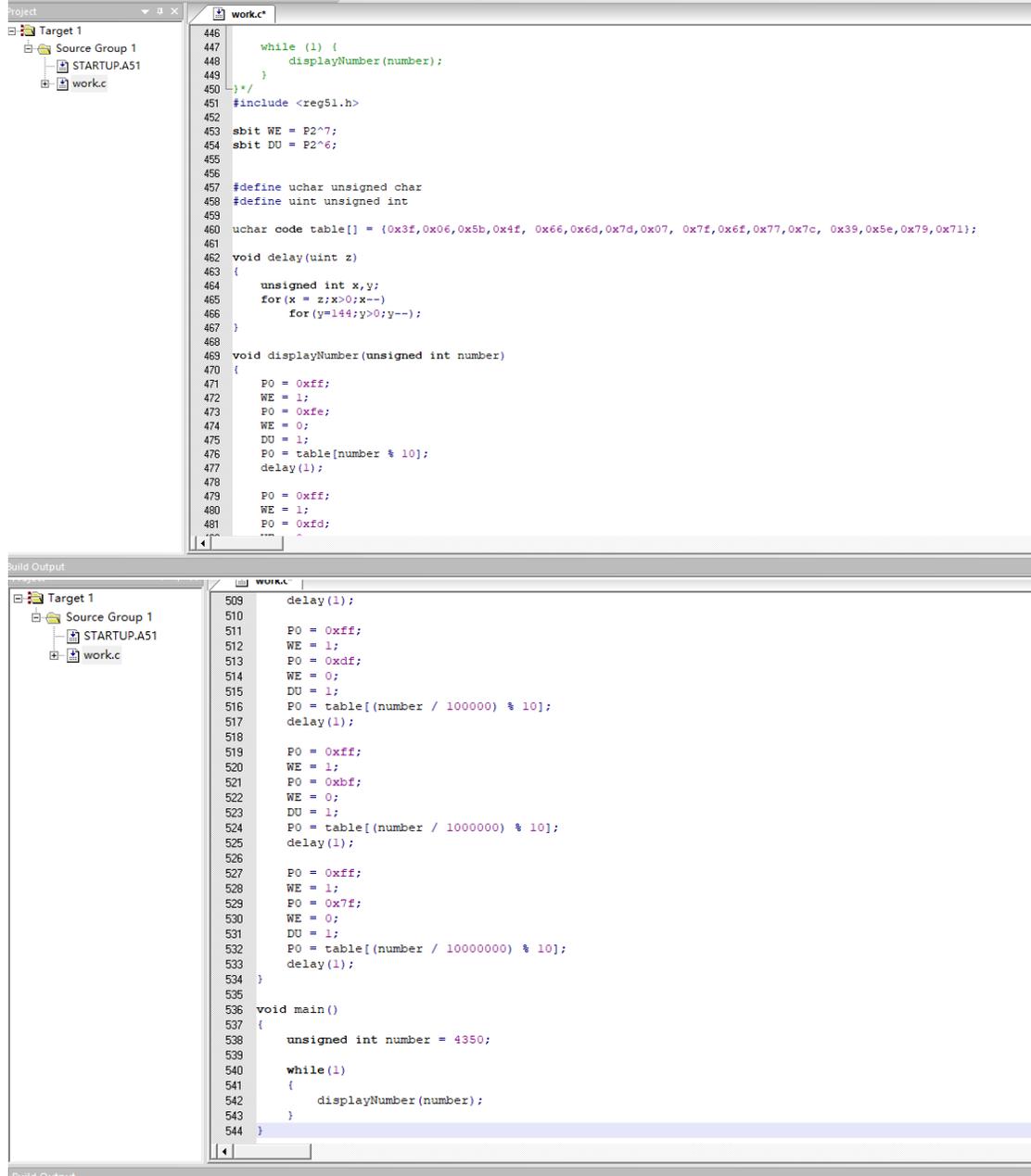
笔记本: 我的第一个笔记本

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ChatGPT:



```
446
447     while (1) {
448         displayNumber(number);
449     }
450 }*/
451 #include <reg51.h>
452
453 sbit WE = P2^7;
454 sbit DU = P2^6;
455
456
457 #define uchar unsigned char
458 #define uint unsigned int
459
460 uchar code table[] = {0x3f,0x06,0x5b,0x4f, 0x66,0x6d,0x7d,0x07, 0x7f,0x6f,0x77,0x7c, 0x39,0x5e,0x79,0x71};
461
462 void delay(uint z)
463 {
464     unsigned int x,y;
465     for(x = z;x>0;x--)
466         for(y=144;y>0;y--);
467 }
468
469 void displayNumber(unsigned int number)
470 {
471     P0 = 0xff;
472     WE = 1;
473     P0 = 0xfe;
474     WE = 0;
475     DU = 1;
476     P0 = table[number % 10];
477     delay(1);
478
479     P0 = 0xff;
480     WE = 1;
481     P0 = 0xfd;
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509     delay(1);
510
511     P0 = 0xff;
512     WE = 1;
513     P0 = 0xdf;
514     WE = 0;
515     DU = 1;
516     P0 = table[(number / 100000) % 10];
517     delay(1);
518
519     P0 = 0xff;
520     WE = 1;
521     P0 = 0xbf;
522     WE = 0;
523     DU = 1;
524     P0 = table[(number / 1000000) % 10];
525     delay(1);
526
527     P0 = 0xff;
528     WE = 1;
529     P0 = 0x7f;
530     WE = 0;
531     DU = 1;
532     P0 = table[(number / 10000000) % 10];
533     delay(1);
534 }
535
536 void main()
537 {
538     unsigned int number = 4350;
539
540     while(1)
541     {
542         displayNumber(number);
543     }
544 }
```

修改

```

#include <reg51.h>

// 数码管位选值
sbit WE1 = P2^7;
sbit DU1 = P2^6;
sbit WE2 = P2^5;
sbit DU2 = P2^4;           //1、增加位选引脚数，定义四位数码管

#define uchar unsigned char
#define duan P0
// 数码管段选值
uchar code table[] =           //2、定义为共阴极数码管段选
{
    0x3f,0x06,0x5b,0x4f,0x66,0x6d,0x7d,0x07,0x7f,0x6f,0x77,0x7c,0x39,0x5e,0x79,0x71,0x00
};

// 延时函数
void delay(unsigned int ms)
{
    unsigned int i, j;
    for (i = 0; i < ms; i++)
        for (j = 0; j < 1000; j++);           //3、将延时修改为毫秒
}

// 显示数字函数           //4、改为四位数码管显示
void displayNumber(unsigned int number)
{
    duan = table[4];
    WE1 = 0;
    DU1 = 0;
    WE2 = 0;
    DU2 = 1;
    delay(1);

    duan = table[3];
    WE1 = 0;
    DU1 = 0;
    WE2 = 1;
    DU2 = 0;
    delay(1);

    duan = table[5];
    WE1 = 0;
    DU1 = 1;
    WE2 = 0;
    DU2 = 0;
    delay(1);

    duan = table[0];
    WE1 = 1;
    DU1 = 0;
    WE2 = 0;
    DU2 = 0;
    delay(1);
}

```

```

    delay(1);

    duan = table[3];
    WE1 = 0;
    DU1 = 0;
    WE2 = 1;
    DU2 = 0;
    delay(1);

    duan = table[5];
    WE1 = 0;
    DU1 = 1;
    WE2 = 0;
    DU2 = 0;
    delay(1);

    duan = table[0];
    WE1 = 1;
    DU1 = 0;
    WE2 = 0;
    DU2 = 0;
    delay(1);
}

void main()
{
    unsigned int number = 4350;           // 要显示的数字

    while(1)
    {
        displayNumber(number);
    }
}

```

