**实验报告2 万年历**

919113100209 代领

**设计思想：**

这段程序是实现2021年之后年份的万年历（要得到更之前的年历，只需要修改第64，65行数据就可以了。）。主要思路如下：从2021年开始一天一天的数，一边数一边修改对应的星期数，数到输入的年份停止；然后从一月一日这一天开始模拟遍历即可。

main ：

输入要算的年份，预处理年历数组，调用pre来预处理，把所有的地方设置为空格。

调用setweek和setmonth把月份呢星期先处理好。

从2021年一月一日开始往后遍历，调用check来判断遍历的每一年是不是闰年，是闰年2月就多遍历一天。

最后得到输入年份的第一天第一日是星期几，然后调用setdate来把这一年的日历处理出来。最后输出。

最后退出。

Setdate：

循环遍历设置好天数，记录一下偏移量，方便下一个月开始。调用check判断一下当前这一天是不是二月，这一年如果是闰年的二月的循环天数加一。

Setweek：

把星期在数组上设置好，总共有四行需要设置

Setmoth：

把月份在数组上设置好，总共有四行需要设置

pre：

进行预处理，全部设置为空格。

check：

判断是否是闰年。

**源码：**

.data

day: .word 31,28,31,30,31,30,31,31,30,31,30,31

calendar: .space 3600

buf: .ascii " "

WEEK: .asciiz "Mon Tue Wed Thu Fri Sat Sun"

MONTH: .asciiz "JanFebMarAprMayJunJulAugSepOctNovDec"

endl: .asciiz "\n"

titlespace: .asciiz " "

seperateLine: .asciiz "\n-------------------------------------------------------------------------------------------\n"

yearinput: .asciiz "Please input a year later than 2021: "

.globl main

.text

main:

la $a0,yearinput

li $v0,4

syscall

li $v0, 5 #读入年

syscall

la $s7, ($v0) #年份放在s7

la $s4, day

li $v0, 4 #分割线

la $a0, seperateLine

syscall

li $v0,4

la $a0, titlespace #打印标题的空格

syscall

li $v0,1

la $a0, ($s7) #打印标题年份

syscall

li $s0, 0x0a #换行符

la $s1, calendar #年历首地址

la $s2, day #月份天首地址

li $s3, 6 #星期比较工具

li $s4, 0x39 #用来比较‘9’

li $s5, 0x30 #用来比较‘0’

jal pre #预处理所有位置为空格

addi $t1, $s1, 3440

li $t0, 37

pre\_row: sb $s0, 0($t1) #预处理换行

addi $t1, $t1, -93

addi $t0, $t0, -1

blez $t0, pre\_content

b pre\_row

pre\_content:

li $a0, 2 #行

li $a1, 12 #列

la $a2, MONTH #月份首地址

jal setmon #填入月份名称

addi $t1, $s1, 136 #大标题2019

li $a0, 3 #行

li $a1, 0 #列

la $a2, WEEK #星期首地址

jal setweek #填入星期名称

li $t5, 2021

li $t1, 4 #2021.1.1是周五，找到当年第一天是星期几

li $t2, 1

li $t3, 1

la $t4, day

rep1:bge $t5,$s7,yeard #年份小于输入年份

rep2: bgt $t2,12,month #月份小于等于12

li $t0,0

lw $t6,($t4) #t6是当前月天数

bne $t2,2,nxt

jal check

add $t6,$t6,$t0

nxt:

rep3: bgt $t3,$t6,dayd #天数小于当月天数

addi $t3,$t3,1

addi $t1,$t1,1

blt $t1,7,adddate

li $t1,0

adddate:

b rep3

dayd: addi $t2,$t2,1 #天数超过当前月的天数之后，天数置为1，月份加一

li $t3,1

bgt $t2,12,month

addi $t4,$t4,4 #上限天数置为下一个月的天数

b rep2

month: li $t2,1 #月数超过12之后，月置为1，年数加一

subi $t4,$t4,44

addi $t5,$t5,1

b rep1

yeard:

li $t7, 4 #行循环操作数

li $a0, 4 #横坐标

li $s6, 1 #月

dealDate: li $a1, 0 #列坐标

li $t8, 3 #列循环操作数

loopp4: #填入日期

jal setdate

addi $a1, $a1, 32 #下一个月（列）

addi $s6, $s6, 1

addi $t8, $t8, -1

blez $t8, nextline4

b loopp4

nextline4:

add $a0, $a0, 9 #下一行

bgt $s6, 12, PRINT

#add $t7, $t7, -1

blez $t7, PRINT

b dealDate

PRINT:li $v0, 4 #打印

la $a0, calendar

syscall

li $v0, 4

la $a0, seperateLine

syscall

li $v0, 10

syscall

pre: li $t0, 0x20 #全部置为空格

move $t1, $s1

li $t2, 3598

loop: sb $t0, 0($t1)

addi $t2, $t2, -1

addi $t1, $t1, 1

bltz $t2, endpre

b loop

endpre: jr $ra

setmon:

li $t8, 4 #行循环次数

loop2: mul $t0, $a0, 93 #行坐标

move $t1, $a1 #列

li $t9, 3 #列循环次数

add $t0, $t1, $t0 #行列坐标

add $t2, $s1, $t0 #calendar地址

loopp2: #填入月份

lb $t3, 0($a2)

sb $t3, 0($t2)

lb $t3, 1($a2)

sb $t3, 1($t2)

lb $t3, 2($a2)

sb $t3, 2($t2)

addi $a2, $a2, 3 #下一个月份名称

addi $t2, $t2, 32 #下一列

addi $t9, $t9, -1

blez $t9, nextline2

b loopp2

nextline2: addi $a0, $a0, 9 #下一行

addi $t8, $t8, -1

blez $t8, break2

b loop2

break2: jr $ra

setweek:

move $t0, $a0 #行

move $t1, $a1 #列

move $t2, $a2 #星期地址

li $t9, 4 #行循环次数

loop3: mul $t3, $t0, 93

li $t8, 3 #列循环次数

add $t4, $t3, $t1

add $t5, $t4, $s1 #该行起始地址

repp3:

move $t2, $a2

fillweek: #填入星期，遇到0跳出

lb $t6, 0($t2)

beqz $t6, nextcol3

sb $t6, 0($t5)

addi $t2, $t2, 1

addi $t5, $t5, 1

b fillweek

nextcol3:

addi $t5, $t5, 5 #下一列

addi $t8, $t8, -1

blez $t8, nextrow3

b repp3

nextrow3:

addi $t0, $t0, 9 #下一行

addi $t9, $t9, -1

blez $t9, break3

b loop3

break3: jr $ra

setdate:

move $t2, $a0 #起点横坐标

move $t3, $a1 #起点纵坐标

mul $t2, $t2, 93

sll $t4, $t1, 2 #继承上个月最后一天，起点偏移量

add $t4, $t4, $t2

add $t4, $t4, $t3

add $t4, $t4, $s1 #起点地址

addi $t4, $t4, 1

lw $t9, 0($s2) #天数&循环次数

move $t5,$s7

bne $t9,28,nxt2

li $t0,0

move $a3,$ra

jal check

move $ra,$a3

add $t9,$t9,$t0

nxt2:

addi $s2, $s2, 4

li $t5, 0x30 #十位数

li $t6, 0x31 #个位数

loop5: bne $t5, $s5, next5 #十位数不为0才填写

b dealCarry

next5: sb $t5, 0($t4)

dealCarry:

sb $t6, 1($t4)

addi $t6, $t6, 1 #日期数字加1

bgt $t6, $s4, iscarry #判断进位

b notcarry

iscarry: addi $t5, $t5, 1 #进位

addi $t6, $t6, -10

notcarry:

addi $t4, $t4, 4

addi $t1, $t1, 1

bgt $t1, $s3, isendl2 #判断是否到了星期天换行

b notendl2

isendl2: addi $t1, $t1, -7

addi $t4, $t4, 65 #换行继续填数字

notendl2:

addi $t9, $t9, -1

blez $t9, ret5

b loop5

ret5: jr $ra

check:div $t0,$t5,4#检查是否是闰年,t0用来存返回值

mfhi $t0

beq $t0,0,else1

li $t0,0

jr $ra

else1:

div $t7,$t5,400

mfhi $t7

bne $t7,0,else2

li $t0,0

jr $ra

else2:li $t0,1

jr $ra

**测试过程和结果：**

Please input a year later than 2021: 2021

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2021

Jan Feb Mar

Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun

1 2 3 1 2 3 4 5 6 7 1 2 3 4 5 6 7

4 5 6 7 8 9 10 8 9 10 11 12 13 14 8 9 10 11 12 13 14

11 12 13 14 15 16 17 15 16 17 18 19 20 21 15 16 17 18 19 20 21

18 19 20 21 22 23 24 22 23 24 25 26 27 28 22 23 24 25 26 27 28

25 26 27 28 29 30 31 29 30 31

Apr May Jun

Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun

1 2 3 4 1 2 1 2 3 4 5 6

5 6 7 8 9 10 11 3 4 5 6 7 8 9 7 8 9 10 11 12 13

12 13 14 15 16 17 18 10 11 12 13 14 15 16 14 15 16 17 18 19 20

19 20 21 22 23 24 25 17 18 19 20 21 22 23 21 22 23 24 25 26 27

26 27 28 29 30 24 25 26 27 28 29 30 28 29 30

31

Jul Aug Sep

Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun

1 2 3 4 1 1 2 3 4 5

5 6 7 8 9 10 11 2 3 4 5 6 7 8 6 7 8 9 10 11 12

12 13 14 15 16 17 18 9 10 11 12 13 14 15 13 14 15 16 17 18 19

19 20 21 22 23 24 25 16 17 18 19 20 21 22 20 21 22 23 24 25 26

26 27 28 29 30 31 23 24 25 26 27 28 29 27 28 29 30

30 31

Oct Nov Dec

Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun

1 2 3 1 2 3 4 5 6 7 1 2 3 4 5

4 5 6 7 8 9 10 8 9 10 11 12 13 14 6 7 8 9 10 11 12

11 12 13 14 15 16 17 15 16 17 18 19 20 21 13 14 15 16 17 18 19

18 19 20 21 22 23 24 22 23 24 25 26 27 28 20 21 22 23 24 25 26

25 26 27 28 29 30 31 29 30 27 28 29 30 31

Please input a year later than 2021: 2022

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2022

Jan Feb Mar

Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun

1 2 1 2 3 4 5 6 1 2 3 4 5 6

3 4 5 6 7 8 9 7 8 9 10 11 12 13 7 8 9 10 11 12 13

10 11 12 13 14 15 16 14 15 16 17 18 19 20 14 15 16 17 18 19 20

17 18 19 20 21 22 23 21 22 23 24 25 26 27 21 22 23 24 25 26 27

24 25 26 27 28 29 30 28 28 29 30 31

31

Apr May Jun

Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun

1 2 3 1 1 2 3 4 5

4 5 6 7 8 9 10 2 3 4 5 6 7 8 6 7 8 9 10 11 12

11 12 13 14 15 16 17 9 10 11 12 13 14 15 13 14 15 16 17 18 19

18 19 20 21 22 23 24 16 17 18 19 20 21 22 20 21 22 23 24 25 26

25 26 27 28 29 30 23 24 25 26 27 28 29 27 28 29 30

30 31

Jul Aug Sep

Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun

1 2 3 1 2 3 4 5 6 7 1 2 3 4

4 5 6 7 8 9 10 8 9 10 11 12 13 14 5 6 7 8 9 10 11

11 12 13 14 15 16 17 15 16 17 18 19 20 21 12 13 14 15 16 17 18

18 19 20 21 22 23 24 22 23 24 25 26 27 28 19 20 21 22 23 24 25

25 26 27 28 29 30 31 29 30 31 26 27 28 29 30

Oct Nov Dec

Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun

1 2 1 2 3 4 5 6 1 2 3 4

3 4 5 6 7 8 9 7 8 9 10 11 12 13 5 6 7 8 9 10 11

10 11 12 13 14 15 16 14 15 16 17 18 19 20 12 13 14 15 16 17 18

17 18 19 20 21 22 23 21 22 23 24 25 26 27 19 20 21 22 23 24 25

24 25 26 27 28 29 30 28 29 30 26 27 28 29 30 31

31

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Please input a year later than 2021: 2023

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2023

Jan Feb Mar

Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun

1 1 2 3 4 5 1 2 3 4 5

2 3 4 5 6 7 8 6 7 8 9 10 11 12 6 7 8 9 10 11 12

9 10 11 12 13 14 15 13 14 15 16 17 18 19 13 14 15 16 17 18 19

16 17 18 19 20 21 22 20 21 22 23 24 25 26 20 21 22 23 24 25 26

23 24 25 26 27 28 29 27 28 27 28 29 30 31

30 31

Apr May Jun

Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun

1 2 1 2 3 4 5 6 7 1 2 3 4

3 4 5 6 7 8 9 8 9 10 11 12 13 14 5 6 7 8 9 10 11

10 11 12 13 14 15 16 15 16 17 18 19 20 21 12 13 14 15 16 17 18

17 18 19 20 21 22 23 22 23 24 25 26 27 28 19 20 21 22 23 24 25

24 25 26 27 28 29 30 29 30 31 26 27 28 29 30

Jul Aug Sep

Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun

1 2 1 2 3 4 5 6 1 2 3

3 4 5 6 7 8 9 7 8 9 10 11 12 13 4 5 6 7 8 9 10

10 11 12 13 14 15 16 14 15 16 17 18 19 20 11 12 13 14 15 16 17

17 18 19 20 21 22 23 21 22 23 24 25 26 27 18 19 20 21 22 23 24

24 25 26 27 28 29 30 28 29 30 31 25 26 27 28 29 30

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Oct Nov Dec

Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun

1 1 2 3 4 5 1 2 3

2 3 4 5 6 7 8 6 7 8 9 10 11 12 4 5 6 7 8 9 10

9 10 11 12 13 14 15 13 14 15 16 17 18 19 11 12 13 14 15 16 17

16 17 18 19 20 21 22 20 21 22 23 24 25 26 18 19 20 21 22 23 24

23 24 25 26 27 28 29 27 28 29 30 25 26 27 28 29 30 31

30 31

Please input a year later than 2021: 2024

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2024

Jan Feb Mar

Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun

1 2 3 4 5 6 7 1 2 3 4 1 2 3

8 9 10 11 12 13 14 5 6 7 8 9 10 11 4 5 6 7 8 9 10

15 16 17 18 19 20 21 12 13 14 15 16 17 18 11 12 13 14 15 16 17

22 23 24 25 26 27 28 19 20 21 22 23 24 25 18 19 20 21 22 23 24

29 30 31 26 27 28 29 25 26 27 28 29 30 31

Apr May Jun

Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun

1 2 3 4 5 6 7 1 2 3 4 5 1 2

8 9 10 11 12 13 14 6 7 8 9 10 11 12 3 4 5 6 7 8 9

15 16 17 18 19 20 21 13 14 15 16 17 18 19 10 11 12 13 14 15 16

22 23 24 25 26 27 28 20 21 22 23 24 25 26 17 18 19 20 21 22 23

29 30 27 28 29 30 31 24 25 26 27 28 29 30

Jul Aug Sep

Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun

1 2 3 4 5 6 7 1 2 3 4 1

8 9 10 11 12 13 14 5 6 7 8 9 10 11 2 3 4 5 6 7 8

15 16 17 18 19 20 21 12 13 14 15 16 17 18 9 10 11 12 13 14 15

22 23 24 25 26 27 28 19 20 21 22 23 24 25 16 17 18 19 20 21 22

29 30 31 26 27 28 29 30 31 23 24 25 26 27 28 29

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Oct Nov Dec

Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun

1 2 3 4 5 6 1 2 3 1

7 8 9 10 11 12 13 4 5 6 7 8 9 10 2 3 4 5 6 7 8

14 15 16 17 18 19 20 11 12 13 14 15 16 17 9 10 11 12 13 14 15

21 22 23 24 25 26 27 18 19 20 21 22 23 24 16 17 18 19 20 21 22

28 29 30 31 25 26 27 28 29 30 23 24 25 26 27 28 29

30 31

Please input a year later than 2021: 2025

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2025

Jan Feb Mar

Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun

1 2 3 4 5 1 2 1 2

6 7 8 9 10 11 12 3 4 5 6 7 8 9 3 4 5 6 7 8 9

13 14 15 16 17 18 19 10 11 12 13 14 15 16 10 11 12 13 14 15 16

20 21 22 23 24 25 26 17 18 19 20 21 22 23 17 18 19 20 21 22 23

27 28 29 30 31 24 25 26 27 28 24 25 26 27 28 29 30

31

Apr May Jun

Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun

1 2 3 4 5 6 1 2 3 4 1

7 8 9 10 11 12 13 5 6 7 8 9 10 11 2 3 4 5 6 7 8

14 15 16 17 18 19 20 12 13 14 15 16 17 18 9 10 11 12 13 14 15

21 22 23 24 25 26 27 19 20 21 22 23 24 25 16 17 18 19 20 21 22

28 29 30 26 27 28 29 30 31 23 24 25 26 27 28 29

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Jul Aug Sep

Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun

1 2 3 4 5 6 1 2 3 1 2 3 4 5 6 7

7 8 9 10 11 12 13 4 5 6 7 8 9 10 8 9 10 11 12 13 14

14 15 16 17 18 19 20 11 12 13 14 15 16 17 15 16 17 18 19 20 21

21 22 23 24 25 26 27 18 19 20 21 22 23 24 22 23 24 25 26 27 28

28 29 30 31 25 26 27 28 29 30 31 29 30

Oct Nov Dec

Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun

1 2 3 4 5 1 2 1 2 3 4 5 6 7

6 7 8 9 10 11 12 3 4 5 6 7 8 9 8 9 10 11 12 13 14

13 14 15 16 17 18 19 10 11 12 13 14 15 16 15 16 17 18 19 20 21

20 21 22 23 24 25 26 17 18 19 20 21 22 23 22 23 24 25 26 27 28

27 28 29 30 31 24 25 26 27 28 29 30 29 30 31

Please input a year later than 2021: 2100

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2100

Jan Feb Mar

Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun

1 2 3 1 2 3 4 5 6 7 1 2 3 4 5 6

4 5 6 7 8 9 10 8 9 10 11 12 13 14 7 8 9 10 11 12 13

11 12 13 14 15 16 17 15 16 17 18 19 20 21 14 15 16 17 18 19 20

18 19 20 21 22 23 24 22 23 24 25 26 27 28 21 22 23 24 25 26 27

25 26 27 28 29 30 31 29 28 29 30 31

Apr May Jun

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1 2 3 1 1 2 3 4 5

4 5 6 7 8 9 10 2 3 4 5 6 7 8 6 7 8 9 10 11 12

11 12 13 14 15 16 17 9 10 11 12 13 14 15 13 14 15 16 17 18 19

18 19 20 21 22 23 24 16 17 18 19 20 21 22 20 21 22 23 24 25 26

25 26 27 28 29 30 23 24 25 26 27 28 29 27 28 29 30

30 31

Jul Aug Sep

Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun

1 2 3 1 2 3 4 5 6 7 1 2 3 4

4 5 6 7 8 9 10 8 9 10 11 12 13 14 5 6 7 8 9 10 11

11 12 13 14 15 16 17 15 16 17 18 19 20 21 12 13 14 15 16 17 18

18 19 20 21 22 23 24 22 23 24 25 26 27 28 19 20 21 22 23 24 25

25 26 27 28 29 30 31 29 30 31 26 27 28 29 30

Oct Nov Dec

Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun

1 2 1 2 3 4 5 6 1 2 3 4

3 4 5 6 7 8 9 7 8 9 10 11 12 13 5 6 7 8 9 10 11

10 11 12 13 14 15 16 14 15 16 17 18 19 20 12 13 14 15 16 17 18

17 18 19 20 21 22 23 21 22 23 24 25 26 27 19 20 21 22 23 24 25

24 25 26 27 28 29 30 28 29 30 26 27 28 29 30 31

31

Please input a year later than 2021: 5000

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5000

Jan Feb Mar

Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun

1 2 3 4 1 1 2 3 4 5 6 7

5 6 7 8 9 10 11 2 3 4 5 6 7 8 8 9 10 11 12 13 14

12 13 14 15 16 17 18 9 10 11 12 13 14 15 15 16 17 18 19 20 21

19 20 21 22 23 24 25 16 17 18 19 20 21 22 22 23 24 25 26 27 28

26 27 28 29 30 31 23 24 25 26 27 28 29 29 30 31

Apr May Jun

Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun

1 2 3 4 1 2 1 2 3 4 5 6

5 6 7 8 9 10 11 3 4 5 6 7 8 9 7 8 9 10 11 12 13

12 13 14 15 16 17 18 10 11 12 13 14 15 16 14 15 16 17 18 19 20

19 20 21 22 23 24 25 17 18 19 20 21 22 23 21 22 23 24 25 26 27

26 27 28 29 30 24 25 26 27 28 29 30 28 29 30

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Jul Aug Sep

Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun

1 2 3 4 1 1 2 3 4 5

5 6 7 8 9 10 11 2 3 4 5 6 7 8 6 7 8 9 10 11 12

12 13 14 15 16 17 18 9 10 11 12 13 14 15 13 14 15 16 17 18 19

19 20 21 22 23 24 25 16 17 18 19 20 21 22 20 21 22 23 24 25 26

26 27 28 29 30 31 23 24 25 26 27 28 29 27 28 29 30

30 31

Oct Nov Dec

Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun Mon Tue Wed Thu Fri Sat Sun

1 2 3 1 2 3 4 5 6 7 1 2 3 4 5

4 5 6 7 8 9 10 8 9 10 11 12 13 14 6 7 8 9 10 11 12

11 12 13 14 15 16 17 15 16 17 18 19 20 21 13 14 15 16 17 18 19

18 19 20 21 22 23 24 22 23 24 25 26 27 28 20 21 22 23 24 25 26

25 26 27 28 29 30 31 29 30 27 28 29 30 31

**总结体会：**

中间因为没有使用sp寄存器来处理参数调用，导致寄存器不够用，由于check函数是在setdate里面是两级调用，最开始写的时候没有注意ra寄存器，导致死循环。

总的来看基本的功能算是实现了，但是代码很不整洁，老师总共180多行玩城，我写了200多行，看来有很多操作是搞复杂了。如果没有规范的使用寄存器，汇编代码的调试，修改就是一场灾难，希望我可以汲取教训，能够写出更加优雅整洁的代码。