*Assignment # 02*

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[org Ox0100]

jmp start

dividend: dw 19

Divisor: dw 7

count: dw 8

a: dw 0

data: dw 2

start:

xor ax, ax

xor bx, bx

xor cx, cx

xor dx, cx

mov al,[dividend]

mov bl,[divisor]

mov al,[count]

mov al,[a]

funct:

rcl al,1

rcl dl,1

clc

sub dl,bl

jns funct2

jmp funct1

funct1:

push ax

push bx

mov bl,2

div bl

cmp ah,0

je funct4

pop bx

pop ax

sub al,1

add dl,bl

jmp funct3

funct2:

push ax

push bx

mov bl,2

div bl

cmp ah,0

je funct3

jmp funct5

funct3:

sub cl,1

cmp cl,1

jne funct

jmp end

funct5:

pop bx

pop ax

add al,1

jmp funct3

funct4:

pop bx

pop ax

add dl,b1

jmp funct3

end:

mov ax,0x4c00

int 0x21