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COAL ASSIGNMENT 2

Subroutines:

1. Make separate subroutines for add, subtract, multiply and divide and then perform all these

operations between two numbers of your choice using these subroutines and passing them the

numbers as parameters on the stack. Also, store the results for each of the operations in the

variables shown in the starter code.

[org 0x0100]

operand1: dw 0

operand2: dw 0

sum_result: dw 0

subtraction_result: dw 0

multiplication_result: dw 0

division_result: dw 0

push_in_stack:

pop dx

mov ax, [operand1]

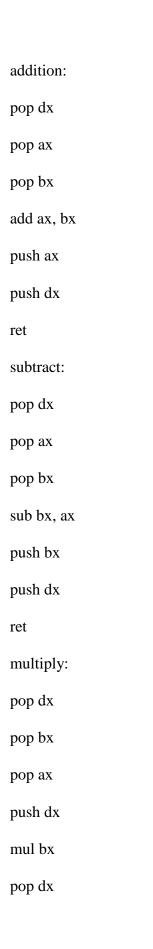
push ax

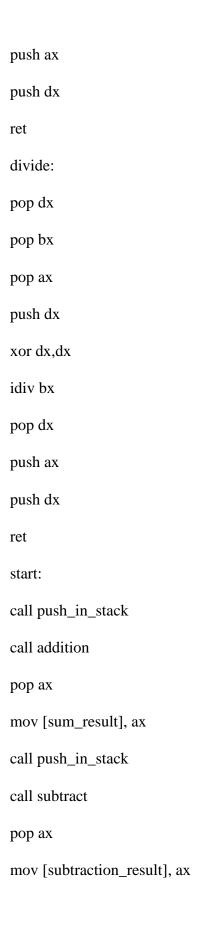
mov ax, [operand2]

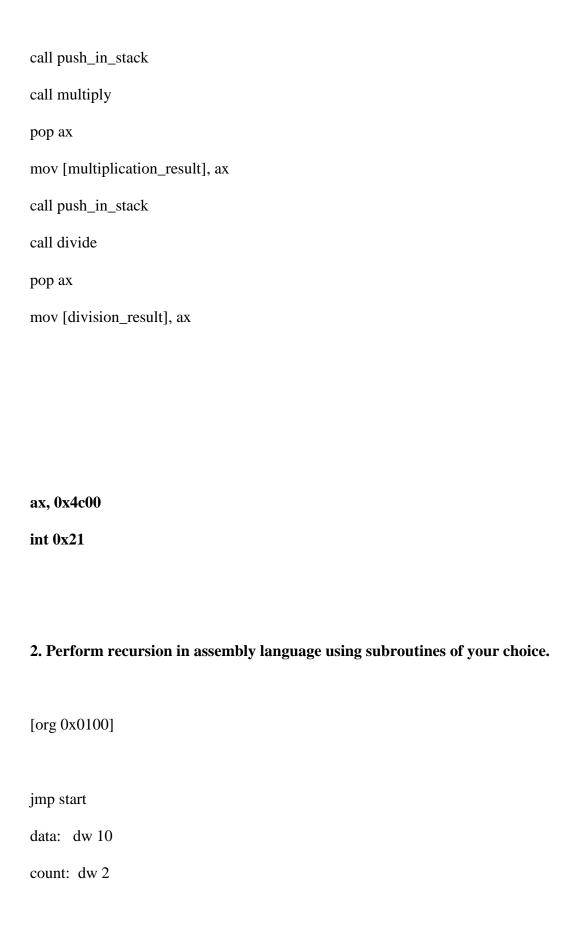
push ax

push dx

ret







```
rec:
    push bp
    mov bp,sp
    mov ax,[bp+4]
    add [result],ax
    dec word[count]
    cmp word[count], 0
    jle end_rec
    push word[result]
    push word[count]
    call rec
    add sp,4
end_rec:
    pop bp
    ret
start: mov ax,[data]
    push ax
    mov cx,[count]
    push cx
```

call rec

result: dw 0

mov ax, 0x4c00

int 0x21