Status Flags

Write a program that shows all the status flags affected by the INC, DEC, ADD, and SUB instructions

.686

.model flat, stdcall

.stack 4096

ExitProcess proto, dwExitCode:dword

.data

a1 word 0ffffh

b1 sword 07fffh

c1 dword 0ffffffffh

d1 sdword 07fffffffh

.code

main proc

mov ax , a1

add ax , 1; CY and AC flages

sub ax , 1

mov bx , b1

add bx , 1 ; OV flages

mov eax , c1

add eax , 1 ; ZR and CY falges

mov eax , d1

add eax , 1 ; PL and OV flages

invoke ExitProcess, 0

main endp

end main

- Stack Operations

Using only push and pop instructions exchange the value in EAX with EBX and the value in ECX with the value in EDX

.686

.model flat, stdcall

.stack 4096

ExitProcess proto, dwExitCode:dword

.data

a1 dword 10

b1 dword 20

c1 dword 30

d1 dword 40

.code

main proc

mov eax , a1

mov ebx , b1

mov ecx , c1

mov edx , d1

push eax

push ebx

push ecx

push edx

pop ecx

pop edx

pop eax

pop ebx

invoke ExitProcess, 0

main endp

end main