

```
; Exercise 7 - Positive/Negative/Zero Check
; Purpose: Check sign of a number and branch.
; #belleswhoshell.ca
```

```
section .data
num dd -5
out dd 0    ; 1 => positive, 0 => zero, -1 => negative
```

```
section .text
global _start
```

```
_start:
    mov eax, [num]
    cmp eax, 0
    je .is_zero
    jl .is_neg

    ; positive
    mov dword [out], 1
    jmp .done
```

```
.is_zero:
    mov dword [out], 0
    jmp .done
```

```
.is_neg:
    mov dword [out], -1
```

```
.done:
    ; exit
    mov eax, 60
    xor edi, edi
    syscall
```