The following opcodes are used for **Modulus**:

- MODI Mod by Signed Integer
- MODU Mod by Unsigned Integer

!!! abstract "MODI — Mod by Signed Integer"

```
=== "Properties"
   | Property | Value
   |-----|
   | **Operand Type**| Signed 64-bit integer
| **Destination** | `L2` (implicit)
=== "Algorithm"
   . . .
   L2 = L2 % <signed_imm>
   L2 = L2 % <reg_val>
   L2 = L2 \% < const>
=== "Example"
   . . .
   ; imm +ve
     MODI 1
   ; imm -ve
     imm -ve
MODI -123
   ; reg val
     MODI val(QT)
   ; const
     MODI SOME_CONST_VAL
```

??? abstract "MODU — Mod by Unsigned Integer"

```
=== "Algorithm"

L3 = L3 % <unsigned_imm>
L3 = L3 % <reg_val>
L3 = L3 % <const>

=== "Example"

; imm +ve
    MODU   1
; reg val
    MODU   val(QT)
; const
    MODU   SOME_CONST_VAL
```