EQU

Name for constant

Value

```
array_size  EQU  10

            .bss
array       RESQ  array_size
            :
```

11:06

.text

1001 → $ → array1 dq 10,20,30,40,50,60,70,80

1065 → $ → array1_size EQU $-array1

64

1065 $ → array2 dd 11,22,33,44,55,66,77,88

1097 $ → array2_size EQU $-array2

32

$

1065 - 1001 = 64

1097 - 1065 = 32

array1 .. 1001

Labels in .text

LOOP instruction

Syntax:

L1:

LOOP label

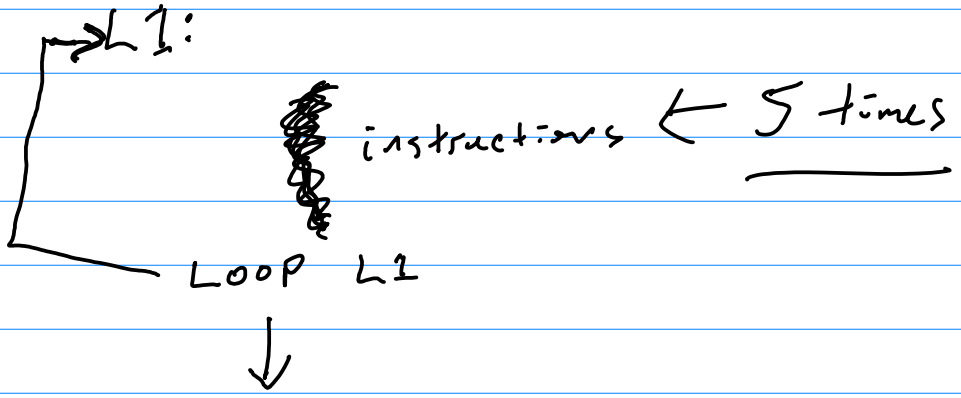
Behavior:

- Decrement RCX register
- IF RCX <> 0, transfers control to the label; ELSE proceed to next instruction

mov RCX, 5

RCX

5 4 3 2 1 0



RSI - Array address

RAX - Next value for array

LOOP

```
INC RAX ; next value
MOV [RSI], RAX
ADD RSI, 8
```