1. "la" and "lw" instructions are implemented differently in MARS because they serve distinct purposes. "la" is used to load the address of a label into a register and typically requires two lines of pseudocode to calculate the address, while "lw" directly loads data from a memory address specified in a register and does not require additional calculations.

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1. A white sheet with blue ticks

   Description automatically generated

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(3)

.text

# Load the address of the data into $t0

la $t0, data

# Load the value at the address in $t0 into $a0

lw $a0, 0($t0)

li $v0, 1

syscall

li $v0, 10

syscall

.data

data: .word 8