

The Order of Instruction Mode is a loop that goes Clear -> Write -> Read -> Back to Clear

Inputs: Button1/Button2

Button2 is the change Instruction mode button.

Button1 is the execute instruction button

A 1/1 input will act as an Instruction Clear, Resetting the Instruction Mode to Clear Instruction

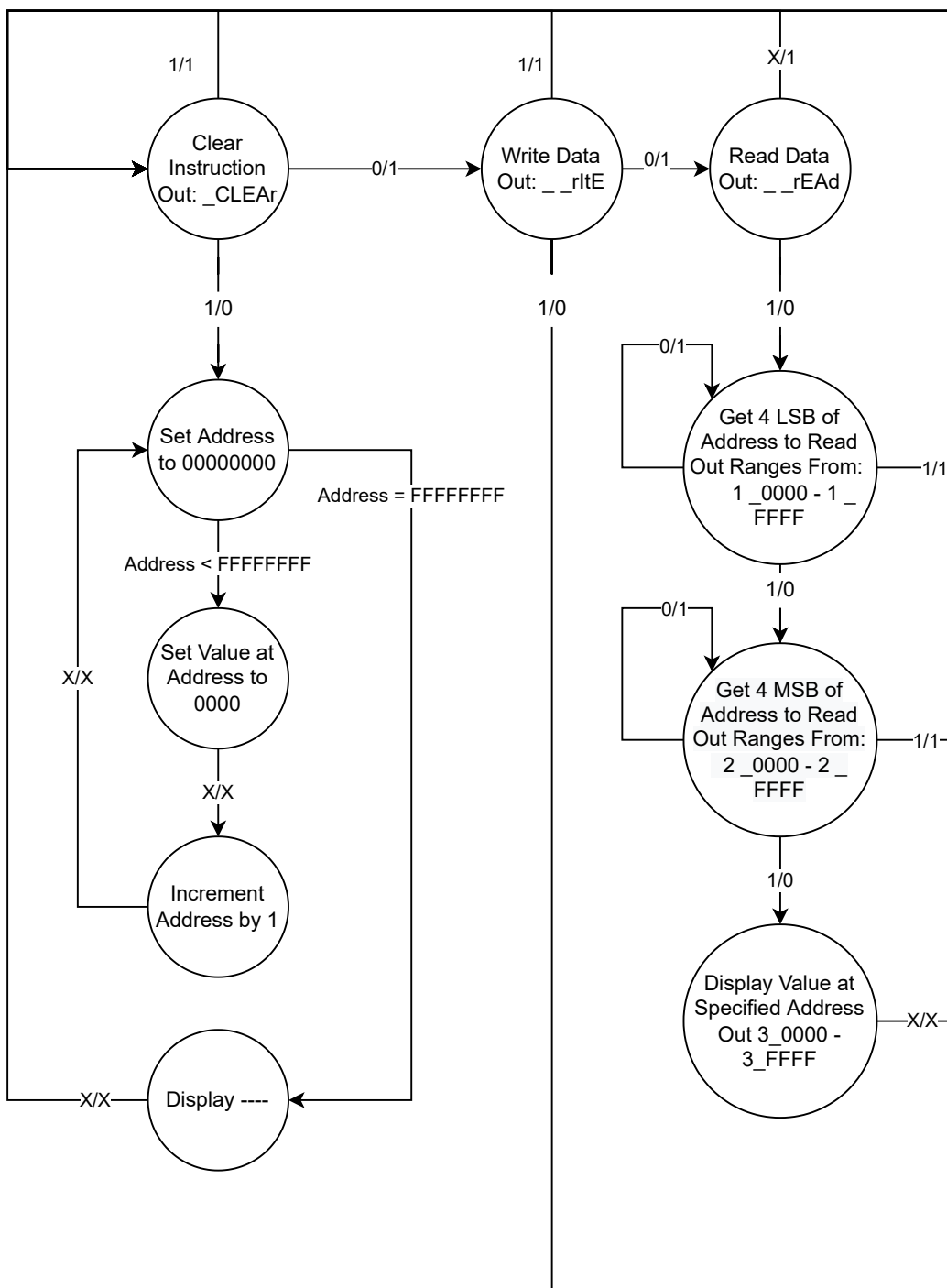
Output: Display on the 7 Segment LED Displays, there are 6 LED Displays on the Board

The LED Displays are referred to in decreasing order from left to right as LED5-LED4-LED3-LED2-LED1-LED0

All Addresses will be displayed on LED3-LED0

Switch 3-0 will cyclically increment LED3-0 from 0 to F on respectively

Underscores Represent a Blank LED Display Ex: Out _ _ _ _ _



The Default Read Address will be 00000000

The Value in LED0 - LED3 will be incremented by Sw0-S3 Respectively
If incremented past 15 it will rollover to 0 again
The value shown in LED5 represents the stage of instruction (1 to 3) that is currently being executed.

