Jacob, Jenny, & Jennifer   Midpoint Operation

To properly work our design on a Zybo board, use button 0 to load in the parallel in value, which is hard-set to 8'hA5. To shift in values from the serial in, set Switch 1 to the next value to be input, then toggle Switch 0 from low to high and back to low. Due to the Zybo only having 4 LEDS, to view all of the 8 bits, use Switch 3 to switch between the upper 4 ([7:4]) and lower 4 ([3:0]) bits. Sw 3 to low shows the lower 4, and Sw 3 to high shows the upper 4.

	Button 0	Switch 0 (toggle high then low)
Switch 1 High	Sets reg to hex A5	Shift in 1 to LSP on reg
Switch 2 Low	Sets reg to hex A5	Shift in 0 to LSP on reg

Switch Position	Switch 3
High	Show Highest 4 bits on LED
Low	Show lowest 4 bits on LED