	Criteria	Points	Notes
Prelab		20	Scored on Gradescope
Step 2			
Blinking timing	LED is observed to be on for 1 second, and off for 1 second, for at least two cycles by the TA	3	
Implementation	digitalWrite() and pinMode() are NOT used anywhere in the code	6	
Step 3			
Button	LED is on while button is pressed and off otherwise	4	Must not use digitalWrite()
Step 4			
Initialization	Re-uploading the code displays a 0 on the Serial monitor or displays nothing, and never increments as long as the button is not pressed	2	
Serial monitor increment	one push of the button corresponds to one increment of the value printed to serial monitor; verified by TA for at least 5 button pushes	3	some inconsistency due to debouncing is ok, but MOST button presses should increment the count by 1
Implementation	Code uses bare-metal programming and not Arduino functions	6	Disallowed: pinMode, digitalRead/Write, attachInterrupt
Interrupt	Button press is detected in the ISR and is not polled anywhere	4	
Step 5			
LED toggles	pressing either button toggles at least one LED between off and on	2	
Differentiate LEDs	Randomly alternating pushing the pin 0 and pin 1 buttons toggles the corresponding LEDs	4	some inconsistency due to debouncing is OK, but pin 0 should never cause a change to external LED and pin 1 should never cause a change to on- board LED
Implementation	Code uses bare-metal programming and not Arduino functions	6	
Interrupt	Button press is detected in the ISR and is not polled anywhere	4	
Differentiate in interrupt	Only one ISR is used, and flag is checked in ISR to determine which button was pushed	8	
Lab code turned in		1	
Writeup		20	Scored on Gradescope
	TOTAL	93	