

	Criteria	Points	Notes
Prelab		13	Scored on Gradescope
Step 1			
Explanation	3-5 sentence overview is given where TA asks questions to probe understanding	6	All or nothing: questions are asked until TA is satisfied with answer and then full points are earned
Step 3			
LED blinks	LED blinks on and off	2	
Blinking timing	LED is observed to be on for 1 second, and off for 2 seconds, for at least two cycles by the TA	2	
Implementation	digitalWrite() and pinMode() are NOT used anywhere in the code	8	
Step 4			
External LED	Same behavior and code style as Step 3, but on the external LED	3	Must not use digitalWrite()
Step 5			
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	3	
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	6	some inconsistency due to debouncing is ok, but MOST button presses should increment the count by 1
Implementation	digitalRead() and pinMode() are NOT used anywhere in the code	3	
Interrupt	Button press is detected in the EIC_handler and is not polled anywhere	4	
Step 6			
LED toggles	pressing either button toggles at least one LED between off and on	2	
Differentiate LEDs	pressing the pin 0 button causes at least one action (turn off or turn on) on the on-board LED and pressing the pin 1 button causes at least one action (turn off or turn on) on the external LED	2	
Toggle and differentiate	Randomly alternating pushing the pin 0 and pin 1 buttons toggles the corresponding LEDs	6	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	pinMode, digitalRead, and digitalWrite are NOT used anywhere in the code	4	
Interrupt	Button press is detected in the EIC_handler and is not polled anywhere	7	
Lab code turned in		1	
Writeup		18	Scored on Gradescope
TOTAL		90	