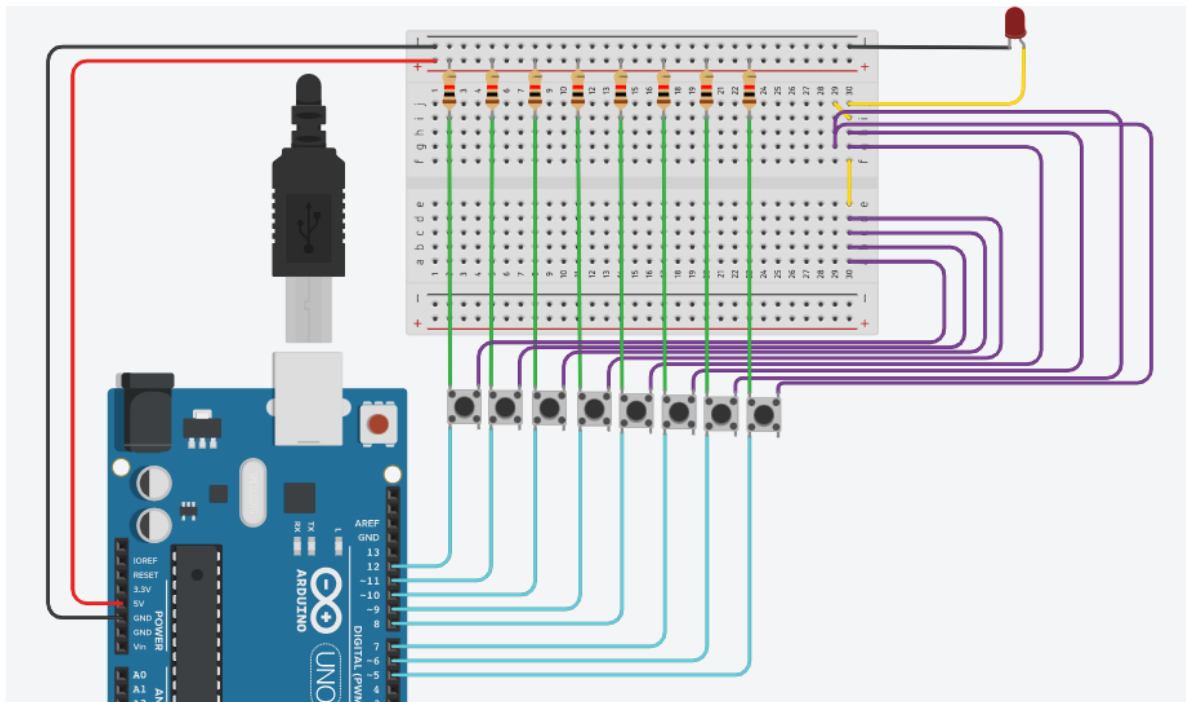# Electronics Schematics

Figure 1: Visual Novel Controller Circuit View
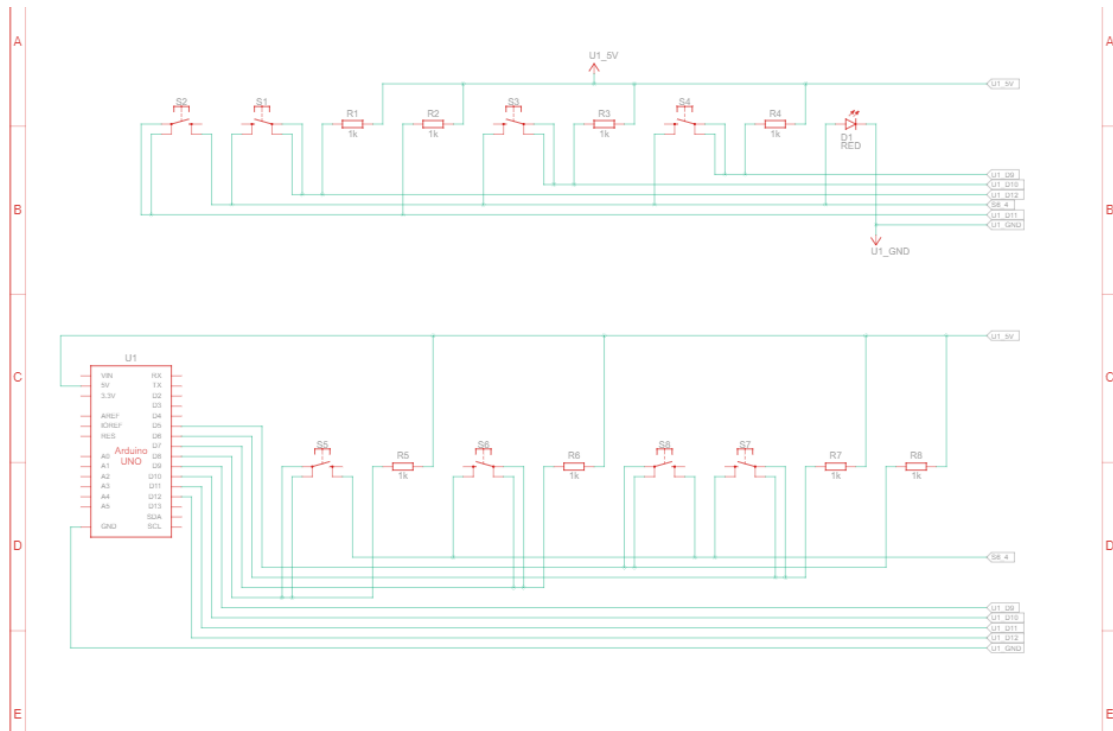

Figure 2: Visual Novel Controller Schematic View

Bill of Materials

Component Name	Quantity	Cost	Role of item	Finding Component
Arduino UNO Board	1	$27.60	Sends messages to the computer based on user inputs.	[Store-Arduino](#)
Yellow LED	1	$0.66	A visual indicator to the player that their inputs are being read.	[Digi-Key Electronics LED](#)
Push buttons	8	$4.23	Used to control gameplay. Each button has a specific purpose.	[Canada Newark Push Button](#)
1 kΩ resistor	8	$0.80	Limits the current traveling through the circuit to prevent the LED from burning out.	[Digi-Key Electronics Resistor](#)
Breadboard	1	$2.71	Acts as a base to group components together.	[Robot Shop Breadboard](#)
Wires	23	$1.91	Used to form connections between different components on the breadboard and create an electrical current.	[Amazon Breadboard Wires](#)
USB 2.0 Cable Type A/B	1	$7.60	Needed to connect the arduino to the pc playing the video game.	[Store-Arduino](#)
Velcro straps	1	$10.99	Used for wire management	[Amazon Velcro Straps](#)