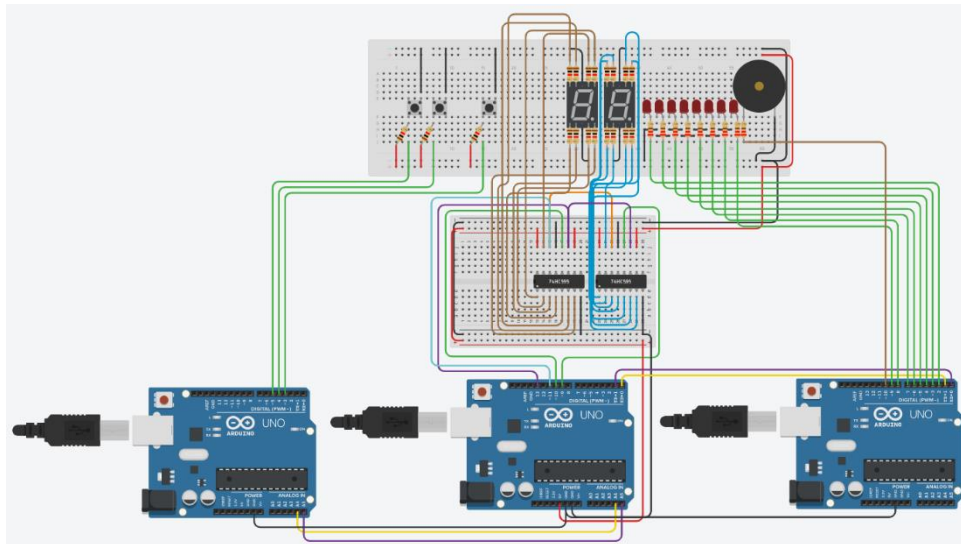


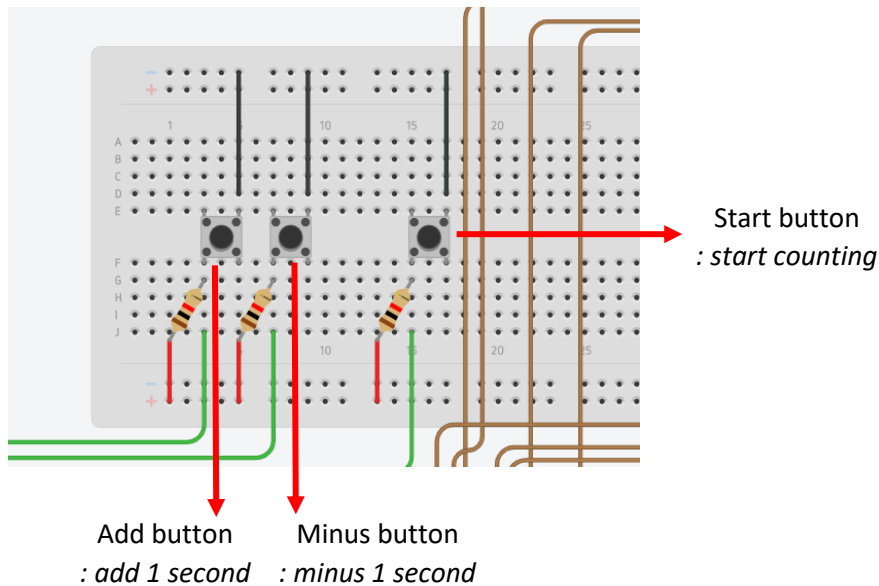
Bomb timer with LED bomb rope



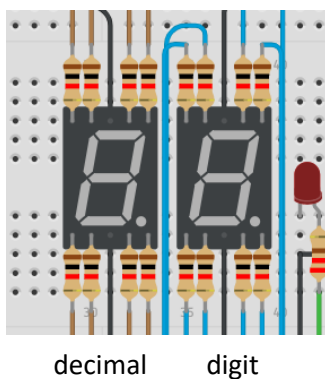
ITEM	NEEDED
Push button	3 pcs.
7 segments (cathode)	2 pcs.
LED pin	8 pcs.
Buzzer	1 pc.
74HC595	2 pcs.
Arduino Uno R3	3 pcs.
220 Ω resistor	9 pcs.
1 k Ω resistor	19 pcs.

❖ Description of each element

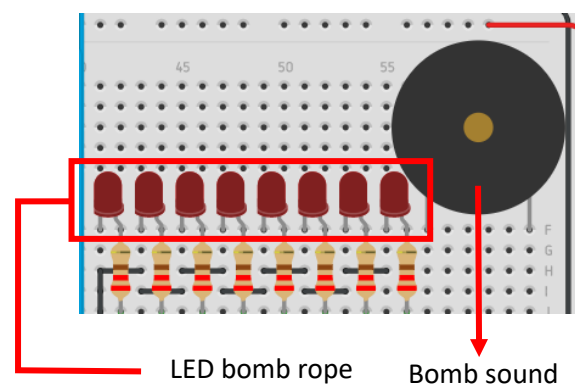
➤ 3 Buttons



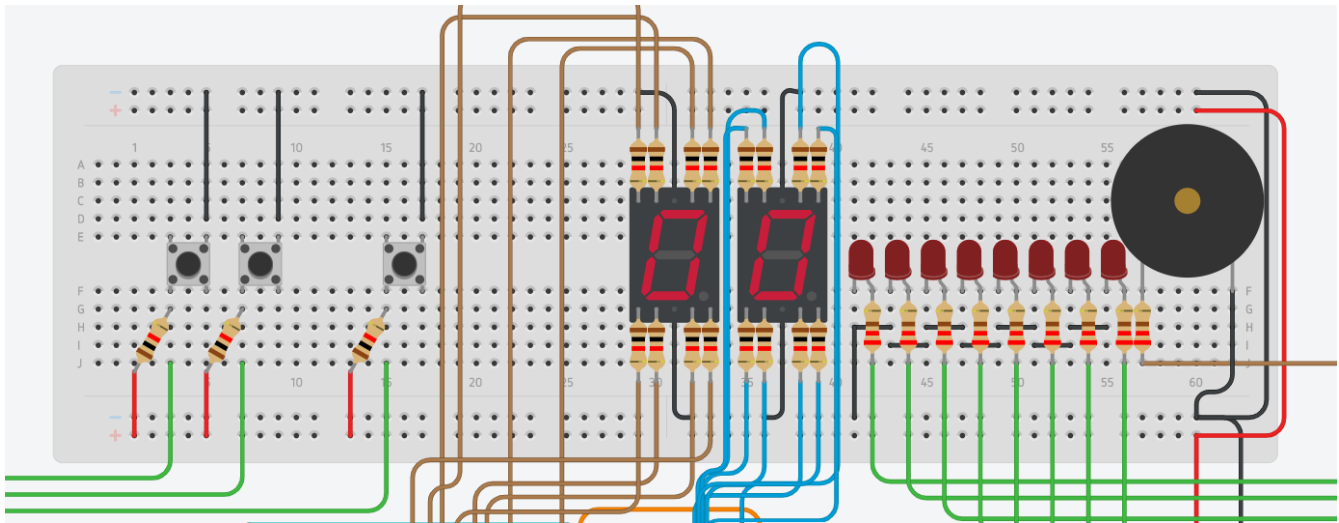
➤ 7 segments (represented timer)



➤ LED pin and Buzzer



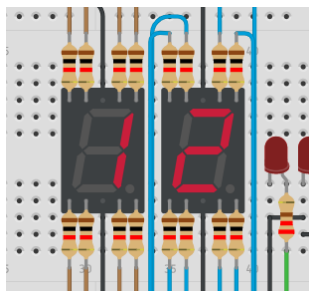
❖ Sequence process



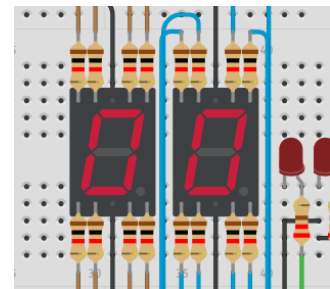
- Step 1 -
Setting the timer by press
button Add/Minus button

- Step 2 -
press "start button" to start
count down

- Step 3 -
7 segments is counting
down until zero



12 seconds

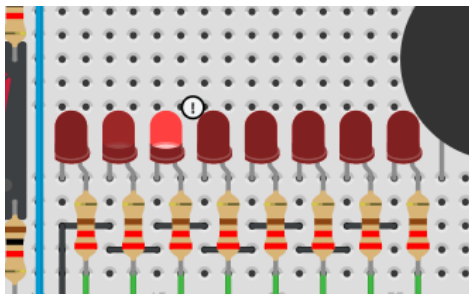


- Step 4 -
LED bomb rope turn on
from left to right as fire

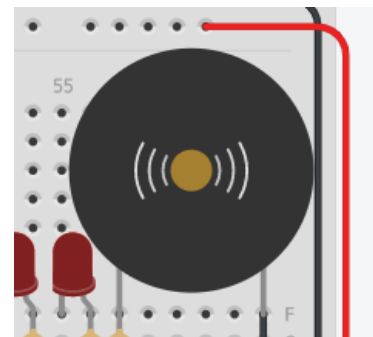
- Step 5 -
After the last LED pin turn off that means its
bomb time so buzzer alarm as BOOM!!



Bomb fire rope



Left to right



❖ Protocols

