LED Shift Register

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SUMMARY

The line of LEDs takes the inverted signals from a CD4017 counter, so that each LED generates light when the related outputs go to a low level. It works in bidirectional sequence. A 555 timer chip, in astable multivibrator mode, generates the clock signal.

Circuit schematic & video

**Step 1 — LED Shift Register**

- The CD4017 integrated circuit may be damaged by static electricity.
- Use an antistatic workbench.
- Be connected to ground while you work.
Step 2

If you connect the components with individual wires, I suggest that you start by soldering the wires on the integrated circuit's pins.

Step 3

Check that the resistors' values work for your LEDs, especially on the middle stages.

Since your LEDs may be different from mine, you may have to modify the resistors' values.

Pay attention to the 470 and 47K resistors.