TER4M1 - LED CUBE ROUTINES

LEVEL 3 Routines

Routine 1 – Light up one LED at a time , starting from one bottom corner or center and in a spiral pattern, lighting up each LED until the top most LED has been lit. Only 1 LED is illuminated at a time.

Routine 2 – Starlight Sparkle. Randomly light up a LED to simulate a sparkling object. Run for 30 sec.

Routine 3 – Starburst. From the center, the LED burst outward.

Routine 4 – Up and Down. Each level is lit on and off and simulates an up and down pattern.

Routine 5 – Side to side. Each column of LED is lit on and off, simulating a side to side motion.

Routine 6 – Rotating walls. The walls of the cube must rotate about an axis.

LEVEL 4 Routines

Routine 7 – Snake. A 3 – 5 LED snake must randomly move around the cube.

Routine 8 - Counter rotating levels. Each level has 3 LED that are spiraling, but each level is moving in a different direction.

Routine 9 – Persistance of Vision. The cube must count from 1 to 9, with the numbers visible at a 45 degree angle.