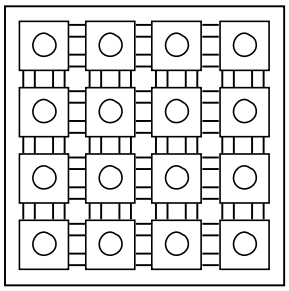
On the Subject of Wire Terminals



If wires are the lifeblood of electronics, we may need to call in a neurosurgeon.

- This module consists of a network of terminals, each with an LED and up to eight coloured wires connecting it to its neighbours.
- The colour of the LED denotes which wires connected to its terminal are live and should not be cut.
- Use the list below to assign a pair of wire colours to an LED colour:

1. Take the first numeric digit of the serial number and assign its corresponding pair to the Red LED.
2. Take the second numeric digit of the serial number and move down the list that many spaces, wrapping around from bottom to top.
   If the space landed on is already assigned to another LED colour, continue moving down to the first unassigned space.
3. Repeat the previous step to assign the LED colours Yellow, Blue, White, and Black, in that order.

0	White & Black
1	Yellow & Blue
2	Red & Black
3	Yellow & White
4	Red & Blue
5	Yellow & Black
6	Blue & White
7	Red & Yellow
8	Blue & Black
9	Red & White

- If cutting a wire would result in partitioning the network into two disconnected groups, that wire is always live regardless of the states of the terminals it connects to.
- Once only live wires remain uncut, the colours of the LEDs will change.
- The module is solved when the only remaining uncut wires are always live.