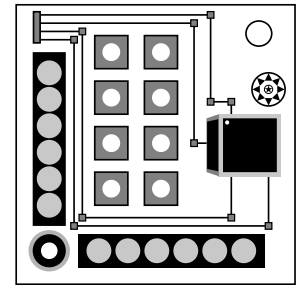


On the Subject of The Cube

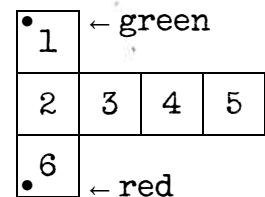
The mothership has been contacted. They've sent an executive toy...

- A spinner above the cube lits a triangle indicator green for each of the eight stages to disarm.
- Disarm each stage by setting down a certain combo of square buttons and pushing the round button to submit.
- Redo the current stage after submitting a wrong combo.



Part 1: Find values from various module info

- a. The cube has six faces, each with a digit from 0-9. To the right is a net of the cube, with the order of face digits from 1 to 6, shown in their proper orientations.



- b. The wires extend from the starting hub at top-left, ordered by their positions there from top to bottom.

Red	(modules on bomb) + 7	Orange	(green square buttons) + 3
Green	(blue square buttons) + 7	Purple	sum of all digits on cube
Blue	(position of wire) + 5	White	= 6

- c. The cube does six movements in order, then pause briefly and repeat. Movements are observed from an aerial perspective upon the module.

	last digit in serial number		= 4
	first digit in serial number		= 7
	square buttons with the colour of 3rd wire		
	square buttons with the colour of 1st wire		

- d. The left and bottom displays have eight symbols each, elongating in cycles. Convert the symbols to digits from top to bottom, left to right.

1	2	3	4	5	6	7	8	9	0

All these values are used later in a calculation to obtain the desired combos.

Part 2: Calculate key from previous values

1. Generate a number digit by digit from left to right:

Digit 1 = (1st movement value + 6th face digit + 3rd wire value) modulo 10

Digit 2 = (2nd movement value + 5th face digit + 4th wire value) modulo 10

Digit 3 = (3rd movement value + 4th face digit + 1st wire value) modulo 10

Digit 4 = (4th movement value + 3rd face digit + 2nd wire value) modulo 10

Digit 5 = (5th movement value + 2nd face digit) modulo 8

Digit 6 = (6th movement value + 1st face digit) modulo 9

2. Take the 6-digit number above and multiply it by 100.

Add that with the converted left and bottom displays, but disregard any and all carry digits during this operation.

The resulting 8-digit number is the key.

Part 3: Obtain desired combos of buttons from key

For each stage, use the digit of the key in the position matching current stage number, ordered from the left, to receive a group of symbols:

0					1						
2				3				4			
5				6				7			
8					9						

Only set down square buttons as follows before pushing the round button:

- Stage 1, 3 or 5: Set down all square buttons with a symbol in the group.
- Stage 2: Set down all square buttons either with a symbol in the group or with the same symbol as the round button.
- Stage 4: Set down all square buttons either with a symbol in the group or with the same colour as the round button.
- Stage 6: Set down all square buttons either with a symbol in the group or with the same colour as the 1st wire.
- Stage 7: Set down all square buttons either with a symbol in the group or with the same colour as the 3rd wire.
- Stage 8: Set down all square buttons WITHOUT a symbol in the group.

Be careful! The square buttons are unable to lift up until a combo is submitted.