On the Subject of Simon Signals

Because "Points" doesn't start with an S.

- A sequence of arrows will appear on the display.
- Press the buttons in the correct order to progress to the next stage.
- Arrows need to be rotated/adjusted using the following tables.
- Arrows can point in 4 different directions, be one of 4 types, and one of 4 colors.
- Repeat the new sequence back to the module to move on.
- Complete all 3-5 stages to disarm the module.

Table 1: Direction

- Always do this table first.
- Find the intersection between the direction the arrow is pointing, and the *n*th character of the serial number, with *n* being the arrow's position in the sequence (1st arrow = 1st character.)
- If the character is a letter, use its numeric value (A=1, B=2...), and keep subtracting 10 until you get a number from 0-9.
- The arrow should be rotated by the degree value of the intersection.
- If the intersection is a direction, that is the direction the new arrow will face.

	0	1	2	3	4	5	6	7	8	9
NE	0	270	-90	-270	180	0	-270	270	90	360
SE	360	90	180	0	-90	360	180	90	-90	NE
NW	-90	NW	360	90	270	90	270	180	0	-270
SW	180	SE	-90	270	270	0	-270	360	-270	SW

Table 2: Color & Type

- Find the intersection between the color and type of arrow.
- Rotate the new arrow by the degree value of the intersection.

- If the intersection is a direction, that is the way the final arrow will face. Congrats. You got lucky.
- Add up all the digits in the serial number. If the sum is odd, use table 2.1, if it's even, use table 2.2.

Table 2.1:

	Red	Blue	Green	Yellow
	180	-90	0	-270
	0	-90	270	-270
	90	270	90	360
	NE	360	SW	180

Table 2.2:

	Red	Blue	Green	Yellow
	SE	360	-90	360
	90	90	180	270
	-90	180	270	-270
	-270	0	0	NW

- Repeat the new sequence back using the four buttons.
- Completing all the stages will disarm the module.
- Each module has 3-5 stages.
- Stage 1 will have only a single arrow, and a new arrow will be added each stage.

**If you feel like creating this module, DM me on Discord!* (Lumbud84#0963)*