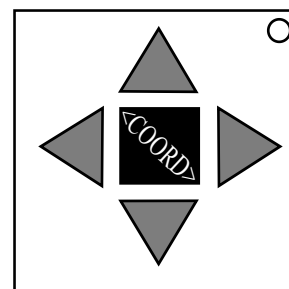# On the Subject of Blue Arrows

Like a guide, pointing at the completely wrong thing.

On the module are 4 directional buttons, and a display screen in the middle.

If the buttons are not Blue, you're looking at a different module.

On the screen is a coordinate within the grid below. Find where that spot is, and assign each arrow a letter relative to that position, by giving the letter directly above it to the Up button, the letter directly below it to the Down button, and etc. If the position is on the edge of the grid or next to a bolded character, loop to the other side of the grid and use the first non-bolded character.

Next, determine the **Priority String** using the instructions given.

To disarm the module, press all four buttons in the correct order based on the **Priority String**. That is, the first button's letter that appears in the **Priority String** reading from left to right is the first move, and then the second, and so on.

Pressing an incorrect button will reset the module and give a new coordinate.

	A	**1**	**B**	**8**	**F**	**4**	**E**	**6**
C	A	G	Y	F	J	D	K	B
3	K	E	I	T	S	R	P	P
G	J	O	N	D	X	W	I	T
7	B	Z	Q	K	A	U	L	N
D	V	S	G	C	O	H	H	Y
5	F	N	M	P	L	R	T	B
H	W	R	E	U	F	Z	V	O
2	D	Z	X	I	M	C	S	Q

Determining the Priority String

1. Start with the entire English alphabet in order.
2. Caesar shift the string by the additive inverse* of the last digit of the Serial Number.
3. Move the first letter of the serial number to the front of the string. If it's already in front, move it to the back instead.
4. Check each condition in the table below in order, from top to bottom. If it returns true, perform the action specified by that row to the current string.

Condition	Action
Lit BOB indicator present, no batteries, no port plates, no unlit indicators, and serial number contains a vowel.	Revert the string back to the entire alphabet in order and ignore the rest of the table.
Lit BOB indicator present.	Reverse the entire string.
Even number of batteries.	Move all vowels to the back of the string, keeping the order they appeared.
DVI-D port NOT present.	Reverse the second half of the string.
Stereo RCA port present.	Move R, C, and A to the front of the string, placing them in the mentioned order.
The coordinate consists of numbers ONLY.	Undo the very last action that you just did.
Odd number of batteries holders.	Take all prime numbered positions out of the string, form a substring with order of appearance, reverse it, and put it back at the very front of the main string.
The coordinate shown lands on a vowel in the grid.	Move everything currently between the letters A and E to the very front of the string.
The Up Arrow's assigned letter is a vowel.	Take the alphanumeric position of the Left button's letter, and Caesar shift the entire string by the additive inverse* of that number.
The Down Arrow's assigned letter is a vowel.	Repeat the very last action you just did.
The coordinate consists of letters ONLY.	Undo the very last action that you just did.

* – The additive inverse of a number is itself but with the opposite sign.