Ali programs three buttons in a machine to swap some digits in a 4-digit number.

- Red button: swaps the thousands and tens digits
- Blue button: swaps the thousands and hundreds digits
- Yellow button: swaps the hundreds and units (ones) digits

Ali types a 4-digit number into the machine. She then presses the following sequence of buttons to produce 6943 as the output.

```
Red Yellow Blue Red Yellow
```

What would the output have been if Ali had instead pressed the following sequence of buttons after typing in her original number?

```
Blue Red Yellow Blue
```

**Strand** Patterning and Algebra