

Now we have blue, red, and yellow chips. Here are the new rules:

- If you take 2 chips that are the same color, put in 1 blue chip.
- If you take 1 blue chip and 1 red chip, put in 1 yellow chip.
- If you take 1 blue chip and 1 yellow chip, put in 1 red chip.
- If you take 1 red chip and 1 yellow chip, put in 1 blue chip.

For each combination of blue, red, and yellow chips, record whether or not it's **possible** for the **last chip** to be blue, red, or yellow. (Put a ✓ if it's possible and put an X if it's impossible.)

| Chips | Can the last chip be blue? | Can the last chip be red? | Can the last chip be yellow? |
|-------------------------|----------------------------|---------------------------|------------------------------|
| 2 blue, 2 red, 2 yellow | | | |
| 3 blue, 2 red, 2 yellow | | | |
| 2 blue, 3 red, 2 yellow | | | |
| 2 blue, 2 red, 3 yellow | | | |

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| 2 blue, 2 red, 2 yellow | | | |
| 3 blue, 2 red, 2 yellow | | | |
| 2 blue, 3 red, 2 yellow | | | |
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| Chips | Can the last chip be blue? | Can the last chip be red? | Can the last chip be yellow? |
|-------------------------|----------------------------|---------------------------|------------------------------|
| 3 blue, 2 red, 1 yellow | | | |
| 3 blue, 1 red, 2 yellow | | | |
| 2 blue, 3 red, 1 yellow | | | |
| 2 blue, 1 red, 3 yellow | | | |
| 1 blue, 3 red, 2 yellow | | | |
| 1 blue, 2 red, 3 yellow | | | |
| 1 blue, 2 red, 4 yellow | | | |

For each combination of blue, red, and yellow chips, record whether or not it's **possible** for the **last chip** to be blue, red, or yellow. (Put a ✓ if it's possible and put an X if it's impossible.)

| Chips | Can the last chip be blue? | Can the last chip be red? | Can the last chip be yellow? |
|-------------------------|----------------------------|---------------------------|------------------------------|
| 3 blue, 2 red, 1 yellow | | | |
| 3 blue, 1 red, 2 yellow | | | |
| 2 blue, 3 red, 1 yellow | | | |
| 2 blue, 1 red, 3 yellow | | | |
| 1 blue, 3 red, 2 yellow | | | |
| 1 blue, 2 red, 3 yellow | | | |
| 1 blue, 2 red, 4 yellow | | | |