Takeaway

In each of these two-player games, Player 1 chooses the initial set-up, then Player 2 decides whether to go first or second. The player who takes the last chip wins.

Can you beat a master at these games if you're allowed to choose whether you want to be Player 1 or Player 2? If so, is it better to be Player 1 or Player 2?

### Take One or Two

On each turn, you must take either one or two chips.

### Take One, Two, or Three

On each turn, you must take either one, two, or three chips.

### Take One or Replace Blue with Red

On each turn, you must take either one chip (of either color) or replace a blue chip with a red chip.

### Take One or Two or Replace Blue with Red

On each turn, you must take either one or two chips (of the same color) or replace a blue chip with a red chip.
In each of these two-player games, Player 1 chooses the initial set-up, then Player 2 decides whether to go first or second. The player who takes the last chip wins.

Can you beat a master at these games if you're allowed to choose whether you want to be Player 1 or Player 2? If so, is it better to be Player 1 or Player 2?

**Takeaway**

**Take One or Take One of Each Color**

On each turn, you must either take one chip or take one chip of each color.

**Take Any Number Less Than Half**

On each turn, you may take as many chips as you want, as long as you take less than half the remaining chips. If there are one or two chips left, you must take exactly one.

**Take Any Number of Either Color (2 Colors)**

On each turn, you may take as many chips as you want, as long as they are all the same color.

**Take Any Number of Either Color (3 Colors)**

On each turn, you may take as many chips as you want, as long as they are all the same color.