Mentorship
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Indexing

Remember that elements in an array are indexed starting at the position `0`. To access an element in an array, use the name of the array immediately followed by square brackets containing the index of the value you want to access.

```
var donuts = ["glazed", "powdered", "sprinkled"];
console.log(donuts[0]); // "glazed" is the first element in the `donuts` array
```

> **Prints:** "glazed"

One thing to be aware of is if you try to access an element at an index that does not exist, a value of undefined will be returned back.

```
console.log(donuts[3]); // the fourth element in `donuts` array does not exist!
```

> **Prints:** undefined

Avoid accessing elements outside the bounds of an array. If you try to, the missing element will be returned back as `undefined`!

QUESTION 1 OF 2

Take a look at the following `donuts` array.

```
var donuts = ["glazed", "chocolate frosted", "Boston cream", "powdered", "sprinkled", "maple",
"coconut", "jelly"];
```

What line of code would you use to select the `"coconut"` donut from the `donuts` array?

- ○ donuts[0]

- ○ donuts[4]

- donuts[6]

- ○ donuts[7]

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Finally, if you want to change the value of an element in array, you can do so by setting it equal to a new value.

Prints: "glazed cruller"

Change the value of an element by setting it equal to a new value.

QUESTION 2 OF 2

We've decided to replace some of donuts in the `donuts` array.

```
var donuts = ["glazed", "chocolate frosted", "boston cream", "powdered", "sprinkled", "maple",
 "coconut", "jelly"];

donuts[2] = "cinnamon twist";
donuts[4] = "salted caramel";
donuts[5] = "shortcake eclair";
```

What does the `donuts` array look like after the following changes?

○ ["glazed", "chocolate frosted", "cinnamon twist", "salted caramel", "shortcake eclair", "maple", "coconut", "jelly"]

○ ["glazed", "cinnamon twist", "boston cream", "salted caramel", "shortcake eclair", "maple", "coconut", "jelly"]

○ ["glazed", "chocolate frosted", "cinnamon twist", "powdered", "salted caramel", "shortcake eclair", "coconut", "jelly"]

○ ["glazed", "cinnamon twist", "boston cream", "powdered", "salted caramel", "shortcake eclair", "coconut", "jelly"]

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