**Splice**

splice() is another handy method that allows you to add and remove elements from anywhere within an array.

While push() and pop() limit you to adding and removing elements from *the end of an array*, splice() lets you specify the index location to add new elements, as well as the number of elements you'd like to delete (if any).

**var** donuts = ["glazed", "chocolate frosted", "Boston creme", "glazed cruller"];

donuts.splice(1, 1, "chocolate cruller", "creme de leche"); *// removes "chocolate frosted" at index 1 and adds "chocolate cruller" and "creme de leche" starting at index 1*

**Returns**: ["chocolate frosted"]  
**donuts** array after calling the splice() method: ["glazed", "chocolate cruller", "creme de leche", "Boston creme", "glazed cruller"]

**Following is the syntax of splice() method**: arrayName.splice(arg1, arg2, item1, ....., itemX); where,

* arg1 = Mandatory argument. Specifies the starting index position to add/remove items. You can use a negative value to specify the position from the end of the array e.g., -1 specifies the last element.
* arg2 = Optional argument. Specifies the count of elements to be removed. If set to 0, no items will be removed.
* item1, ....., itemX are the items to be added at index position arg1

splice() method returns the item(s) that were removed.

splice() is an incredibly powerful method that allows you to manipulate your arrays in a variety of ways. Any combination of adding or removing elements from an array can all be done in one simple line of code.

Take a look at the [**MDN documentation**](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array/splice) to see a long list of example code snippets demonstrating the power of splice() and then try the next set of programming quizzes.

### QUIZ QUESTION

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

**var** donuts = ["cookies", "cinnamon sugar", "creme de leche"];

donuts.splice(-2, 0, "chocolate frosted", "glazed");

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

* ["cookies", "chocolate frosted", "glazed", "cinnamon sugar", "creme de leche"]