

Array Slicing

Array slicing involves taking a subset from an array and allocating a new array with those elements.

In JavaScript you can create a new array of the elements in myArray, from startIndex to endIndex (exclusive), like this:

```
JavaScript myArray.slice(startIndex, endIndex);
```

You can also get everything *after* startIndex by just omitting endIndex:

```
JavaScript myArray.slice(startIndex);
```

Careful: there's a hidden time and space cost here! It's tempting to think of slicing as just "getting elements," but in reality you are:

- 1. allocating a new array
- 2. copying the elements from the original array to the new array

This takes O(n) time and O(n) space, where n is the number of elements in the resulting array.

That's a bit easier to see when you save the result of the slice to a variable:

```
JavaScript
var tailOfArray = myArray.slice(1);
```

But a bit harder to see when you don't save the result of the slice to a variable:

```
JavaScript
return myArray.slice(1);
// whoops, I just spent O(n) time and space!

JavaScript
myArray.slice(1).forEach(function(item) {
// whoops, I just spent O(n) time and space!
```

So keep an eye out. Slice wisely.

See also:

});

- Arrays (/concept/array)
- In-Place Algorithm (/concept/in-place)

What's next?

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