Quiz 2.2

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Problem 1

1/1 point (graded)

Given the following JavaScript, what is printed to the console?

```
var array = [ 8, 11, 16 ];
console.log(array[3]);
```

- The value 16 since it is element #3 of the array.
- `undefined` since there is no element #3. ✔
- Nothing is printed because an exception would occur.
- All three elements are printed.

Answer
Correct:
The array indices are 0-based, meaning that there are elements #0, 1, and 2 but not #3. In JavaScript, accessing an index that does not exist in the array returns `undefined`.

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✔ Correct (1/1 point)

Problem 2

1/1 point (graded)

Given the following JavaScript, what behavior would you observe?

```
var array = [ 'ant', 'bear', 'cow', 'dog' ];
array[4] = 'eagle';
```

- An exception would occur.
- The string `'dog'` would be replaced by the string `'eagle'`.
- The string `'eagle'` would be added to the end of the array. ✔
- The string `'eagle'` would be added to the front of the array.

Answer
Correct:
In JavaScript, it is possible to set elements using an index that is outside the bounds of the array, and the element will then be added to the array. Here, it is added to the end because the array already has 4 elements, so index #4 would come after the last element.

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Problem 3

1/1 point (graded)

I have a JavaScript object defined as follows:

```
var account = {
    id: 12345,
    balance: 123.45
};
```

What are the two ways of accessing the balance property?

- `account.balance` and `account.get('balance')`
- `account.balance` and `account[1]`
- `account.balance` and `account['balance']` ✔
- `account::balance` and `account->balance`

Answer
Correct:
In JavaScript we can access an object's properties using the "dot" notation or by using the "array" notation with the property name passed as a string.

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