

Assign

7 min

We now have everything we need to find a place in the hash map [array](#) to store a value. The only thing left to do is assign the value to the [index](#) we generated. A [method](#), `.assign()` will handle the logic needed to take in a key-value pair and store the value at a particular index.

A general outline of how `.assign()` will work is this:

store the hashed key in a variable `arrayIndex`

assign the value to the element at `arrayIndex` in the hash map

Instructions

1. Checkpoint 1 Passed

1.

Declare a `HashMap` method called `.assign()` with the parameters `key` and `value`.

2. Checkpoint 2 Passed

2.

Declare a constant called `arrayIndex` with the value of the hashed and compressed key.

Hint

Use the `HashMap` class method that hashes and compresses keys.

3. Checkpoint 3 Passed

3.

Assign the value to the element at the index you derived from hashing, `arrayIndex`.

Hint

The hash map array can be accessed through the `.hashmap` property.

4. Checkpoint 4 Passed

4.

Check your work. At the bottom of the **HashMap.js** file store a new instance of `HashMap` with a size of 3 in a constant named `employees`. Assign `employees` the key-value pair `'34-567'` and `'Mara'`, then log the hash map.

Hint

The hash map's array can be accessed through the `.hashmap` property.

HashMap.js

```
class HashMap {  
  constructor(size = 0) {  
    this.hashmap = new Array(size)  
      .fill(null);  
  }  
  
  hash(key) {  
    let hashCode = 0;  
    for (let i = 0; i < key.length; i++) {  
      hashCode += hashCode + key.charCodeAt(i);  
    }  
    return hashCode % this.hashmap.length;  
  }  
  
  assign(key, value) {  
    const arrayIndex = this.hash(key);  
    this.hashmap[arrayIndex] = value;  
  }  
}  
  
module.exports = HashMap;  
  
const employees = new HashMap(3);  
employees.assign('34-567', 'Mara');  
  
console.log(employees.hashmap);
```