```
//------Map -------
// You would start by creating a map:
const demouser = new Map();
demouser.set(u1, 'User');
demouser.set(u2, 'User');
demouser.set(u3, 'Admin');
// The set() method is also chainable, which can save some typing:
demouser
.set(u1, 'User')
.set(u2, 'User')
.set(u3, 'Admin');
// You can also pass an array of arrays to the constructor:
const demouser = new Map([
[u1, 'User'],
[u2, 'User'],
[u3, 'Admin'],
1);
// Now if we want to determine what role u2 has, you can use the get() method:
demouser.get(u2);
// has() method to determine if a map contains a given key:
demouser.has(u1); // true
// The size property will return the number of entries in the map:
demouser.size; // 3
// Use the keys() method to get the keys in a map, values() to return the values, and
for(let u of demouser.keys())
demouser.log(u.name);
for(let r of demouser.values())
console.log(r);
// entries() to get the entries as arrays where the first element is the key and the sec-
// ond is the value.
for(let [u, r] of demouser.entries())
console.log(`${u.name}: ${r}`);
```

// 15. Create a cheat sheet for Map, Set, WeakSet and WeakMap in JS.

```
//-----Set ------
// Set could be quite useful when you don't want to add the same values
const set = new Set();
set.add(1);
set.add('piu');
set.add(BigInt(10));
// Set(4) {1, "john", 10n}
// Like Map, Set also prevents us from adding the same value.
set.add(5);
// Set(1) {5}
set.add(5);
// Set(1) {5}
// Set is an iterable object, you can use a for-of or forEach
for (const val of set) {
  console.dir(val);
set.forEach(val => console.dir(val));
//delete
set.delete(5);
//-----WeakSet ------
// Like WeakMap, WeakSet also loses the access link to inner data if they're
garbage-collected.
// Not an iterable object — can't loop over
// Can't access the data if the referencing data is garbage-collected
// Less supportive methods
let sub = { major: "math" };
const weakSet = new WeakSet();
```

```
weakSet.add(sub);
// WeakSet {{...}}
sub = null;
/* sub is garbage-collected */
//------WeakMap -----
/**A WeakMap is identical to Map except:
• Its keys must be objects.
• Keys in a WeakMap can be garbage-collected.
• A WeakMap cannot be iterated or cleared.
**/
const secrets = new WeakMap();
/**The methods you can use with WeakMap are as follows.
  --delete
  --get
  --has
  --set
 - WeakMap doesn't support the methods for iterating the object.
**/
secrets.set(my, 'piu');
my = null;
```