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JAVASCRIPT SET METHODS

1.Set add() method

- The JavaScript Set add() method is used to add an element to Set object with a specified value.
- Each element must have a unique value.

For example

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<script>
```

```
var set = new Set();
```

```
set.add("jQuery");
```

```
set.add("javascript");
```

```
set.add("html");
```

```
for (elements of set) {
```

```
  document.write(elements+"<br>");
```

```
}
```

```
</script>
```

```
</body>
```

```
</html>
```

2.The Set clear() method:

- The JavaScript Set clear() method is used to remove all the elements from Set object.

```
<!DOCTYPE html>
<html>
<body>

<script>
var set = new Set();
set.add("jQuery");
set.add("javascript");
set.add("html");
document.write(set.size);
set.clear();
document.write("<br>");
document.write(set.size);
</script>
</body>
</html>
```

3.The Set delete() method

- The JavaScript Set delete() method is used to remove all the elements from Set object.

```
<!DOCTYPE html>

<html>

<body>

<script>

var set = new Set();

set.add("jQuery");

set.add("javascript");
```

```
set.add("html");  
  
document.write(set.size);  
  
set.delete("javascript");  
  
document.write("<br>");  
  
document.writeln(set.size);  
  
</script>  
  
</body>  
  
</html>
```

4.The Set has() method

- The JavaScript Set has() method indicates whether the Set object contains the specified value. It returns true if the specified value is present, otherwise false.

```
<!DOCTYPE html>  
  
<html>  
  
<body>  
  
<script>  
  
var set = new Set();  
  
set.add("javascript");  
  
set.add("AngularJS");  
  
set.add("html");
```

```
document.writeln(set.has("Bootstrap"));
```

```
</script>
```

```
</body>
```

```
</html>
```

5.The Set values() method

- The JavaScript Set values() method returns an object of new Set iterator. This object contains the value for each element.

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<script>
```

```
var set = new Set();
```

```
set.add("jQuery");
```

```
set.add("AngularJS");
```

```
set.add("javascript");
```

```
var itr=set.values();
```

```
document.write(itr.next().value);
```

```
document.write("<br>");
```

```
document.write(itr.next().value);
```

```
document.write("<br>");  
  
document.write(itr.next().value);  
  
</script>  
  
</body>  
  
</html>
```

JAVASCRIPT MAP METHODS

- The JavaScript Map method is used to map keys to values. It stores each element as key-value pair. It operates the elements such as search, update and delete on the basis of specified key.
- A map object cannot contain the duplicate keys.
- A map object can contain the duplicate values.
- The key and value can be of any type.
- A map object iterates its elements in insertion order.

1.The Map clear() method

- The JavaScript map clear() method is used to remove all the elements from Map object.

```
<!DOCTYPE html>  
  
<html>  
  
<body>  
  
<script>  
  
var map=new Map();  
  
map.set(1,"jQuery");//key,value pair
```

```
map.set(2,"javascript");  
map.set(3,"html");  
document.write(map.size);  
map.clear();  
document.write("<br>");  
document.write(map.size);  
</script>  
</body>  
</html>
```

2. Map delete() method

- The JavaScript map delete() method is used to remove all the elements from Map object.

```
<!DOCTYPE html>  
<html>  
<body>  
<script>  
var map=new Map();  
map.set(1,"jQuery");  
map.set(2,"javascript");  
map.set(3,"html");
```

```
document.write(map.size);  
  
map.delete(2);  
  
document.write("<br>");  
  
document.write(map.size);  
  
</script>  
  
</body>  
  
</html>
```

3. The Map get() method

- The JavaScript map get() method returns the value of specified key of an element from a Map object.

```
<!DOCTYPE html>  
  
<html>  
  
<body>  
  
<script>  
  
var map=new Map();  
  
map.set(1,"jQuery");  
  
map.set(2,"javascript");  
  
map.set(3,"html");  
  
document.write(map.get(1));  
  
document.write("<br>");
```

```
document.write(map.get(2));  
  
document.write("<br>");  
  
document.write(map.get(3));  
  
</script>  
  
</body>  
  
</html>
```

4. Map keys() method

- The JavaScript map keys() method returns an object of new Map iterator. This object contains the key for each element. It maintains insertion order.

```
<!DOCTYPE html>  
  
<html>  
  
<body>  
  
<script>  
  
var map=new Map();  
  
map.set(1,"jQuery");  
  
map.set(2,"javascript");  
  
map.set(3,"html");  
  
var itr=map.keys();  
  
document.write(itr.next().value);  
  
document.write("<br>");
```



```
document.write(itr.next().value);

document.write("<br>");

document.write(itr.next().value);

</script>

</body>

</html>
```

5.The Map set() method

- The JavaScript map set() method is used to add or updates an element to map object with the particular key-value pair. Each value must have a unique key.

```
<!DOCTYPE html>

<html>

<body>

<script>

var map=new Map();

map.set(1,"jQuery");

map.set(2,"javascript");

map.set(3,"html");

document.write(map.get(1));

document.write("<br>");

document.write(map.get(2));
```

```
document.write("<br>");  
  
document.write(map.get(3));  
  
</script>  
  
</body>  
  
</html>
```

JavaScript WeakSet Methods

- The JavaScript WeakSet object is the type of collection that allows us to store weakly held objects. Unlike Set, the WeakSet are the collections of objects only.
- The main difference is that references to objects in Set are strong while references to objects in WeakSet are weak.
- This means that an object in WeakSet can be garbage collected if there is no other reference to it.

1.Weakset add() method

```
<!DOCTYPE html>  
  
<html>  
  
<body>  
  
<script>  
  
var ws = new WeakSet();  
  
var obj1={ };  
  
var obj2={ };  
  
ws.add(obj1);
```

```
ws.add(obj2);  
  
document.write(ws.has(obj1));  
  
document.write("<br>");  
  
document.write(ws.has(obj2));  
  
</script>  
  
</body>  
  
</html>
```

2 WeakSet delete() method

- The JavaScript WeakSet delete() method is used to remove the specified object from WeakSet object.

```
<!DOCTYPE html>  
  
<html>  
  
<body>  
  
<script>  
  
var ws = new WeakSet();  
  
var obj={ };  
  
ws.add(obj);  
  
document.write(ws.has(obj));  
  
ws.delete(obj);
```

```
document.write("<br>");
```

```
document.write(ws.has(obj));
```

```
</script>
```

```
</body>
```

```
</html>
```

