

List

Creation

```
const list = new List();
```

Adding Element

```
list.add(3);
```

```
list.addAtIndex(0);
```

Removing Element

```
list.remove(4);
```

Setting Value

```
list.set(1, 127);
```

Checking if a value is included

```
list.contains(1);
```

Looping

```
for(let i = 0; i < list.size(); i++){
  console.log(list.get(i));
}
```

Array

Declaration and initialization

```
let array = ['dog', 'cat', 'bird'];
let also = new Array(5);`
```

Adding Element

```
array[3] = 'statistics';
```

Setting Value

```
array[3] = 'whale';
```

Deleting Element

```
delete array[4];
```

Looping

```
array.forEach(...);
```

Checking if a value is included

```
array.includes('dog');
```

LinkedList

Creation

```
let linkedList = new LinkedList();
```

Adding an element

```
linkedList.append(2);
```

```
linkedList.prepend(6);
```

```
linkedList.addAt(2, 5);
```

Fetch of the head value

```
linkedList.fetchHead();
```

Get the value of a specific index

```
linkedList.getValueAt(5);
```

Removing an element

```
linkedList.removeAt(4);
```

```
linkedList.delete(9);
```

Check if a value is included

```
linkedList.contains(4);
```

Looping

```
for (const e of linkedList) {...}
```

SortedSet

Creation

```
let sortedSet = new SortedSet();
```

Adding an element

```
sortedSet.add(5);
```

Removing an element

```
sortedSet.delete(2);
```

Checking if an element is included

```
sortedSet.has(3);
```

Looping

```
for(element in sortedSet.toArray) {
  console.log(element);
}
```

Dictionary

Creation

```
let dict = new Dictionary();
```

Adding a pair

```
dict.add('age', 18);
```

Setting a value

```
dict.set('height', 183);
```

Removing a key

```
dict.remove('height');
```

Checking if a key is included

```
dict.hasKey('face');
```

Checking if a value is included

```
dict.hasValue(18);
```

HashSet

Creation

```
let hashset = new HashSet();
```

Adding Element

```
hashset.add(3);
```

Removing Element

```
hashset.delete(2);
```

Checking if an element is included

```
hashset.has(3);
```

Looping

```
let keys = hashset.values();
for(let i = 0; i < keys.length; i++){
  console.log(keys[i]);
}
```



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