

```
1 class MyArray {
2   constructor() {
3     this.array = [];
4   }
5
6   add(data) {
7     this.array.push(data);
8   }
9
10  remove(data) {
11    this.array = this.array.filter(current => current !== data);
12  }
13
14  search(data) {
15    const foundIndex = this.array.indexOf(data);
16    if(~foundIndex) {
17      return foundIndex;
18    }
19
20    return null;
21  }
22
23  getAtIndex(index) {
24    return this.array[index];
25  }
26
27  length() {
28    return this.array.length;
29  }
30
31  print() {
32    console.log(this.array.join(' '));
33  }
34 }
35
36 const array = new MyArray();
37 array.add(1);
38 array.add(2);
39 array.add(3);
40 array.add(4);
41 array.print(); // => 1 2 3 4
42 console.log('search 3 gives index 2:', array.search(3)); // => 2
43 console.log('getAtIndex 2 gives 3:', array.getAtIndex(2)); // => 3
44 console.log('length is 4:', array.length()); // => 4
45 array.remove(3);
46 array.print(); // => 1 2 4
47 array.add(5);
48 array.add(5);
49 array.print(); // => 1 2 4 5 5
50 array.remove(5);
51 array.print(); // => 1 2 4
52
```