

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