* each是一个集合迭代函数,它接受一个函数作为参数和一组可选的参数

* 这个迭代函数依次将集合的每一个元素和可选参数用函数进行计算,并将计算得的结果集返回

```
{%example
<script>
var a = [1, 2, 3, 4]. each (function (x) {return x > 2 ? x : null});
var b = [1, 2, 3, 4]. each (function (x) {return x < 0 ? x : null});
alert(a);
alert(b);
</script>
%}
* @param {Function} fn 进行迭代判定的函数
* @param more ... 零个或多个可选的用户自定义参数
* @returns {Array} 结果集,如果没有结果,返回空集
*/
Array. prototype. each = function(fn) {
fn = fn \mid | Function.K;
var a = [];
var args = Array. prototype. slice. call (arguments, 1);
for (var i = 0; i < this. length; <math>i++) {
var res = fn. apply(this, [this[i], i]. concat(args));
if(res != null) a.push(res);
}
return a;
};
/**
```

* 得到一个数组不重复的元素集合〈br/〉

* 唯一化一个数组

```
* @returns {Array} 由不重复元素构成的数组
*/
Array.prototype.uniquelize = function() {
var ra = new Array();
for(var i = 0; i < this.length; i ++) {
if(!ra.contains(this[i])) {
ra.push(this[i]);
}
}
return ra;
};
```

* 求两个集合的补集

```
{%example

<script>

var a = [1,2,3,4];

var b = [3,4,5,6];

alert(Array.complement(a,b));

</script>

%}

* @param {Array} a 集合A

* @param {Array} b 集合B

* @returns {Array} 两个集合的补集

*/

Array.complement = function(a, b) {

return Array.minus(Array.union(a, b), Array.intersect(a, b));

};
```

* 求两个集合的交集

```
{%example <script>
```

/**

```
var a = [1,2,3,4];
var b = [3,4,5,6];
alert(Array.intersect(a,b));
</script>
%}
* @param {Array} a 集合A
* @param {Array} b 集合B
* @returns {Array} 两个集合的交集
*/
Array.intersect = function(a, b) {
return a.uniquelize().each(function(o) {return b.contains(o) ? o : null});
};
/**
```

* 求两个集合的差集

```
{%example

<script>

var a = [1,2,3,4];

var b = [3,4,5,6];

alert(Array.minus(a,b));

</script>

%}

* @param {Array} a 集合A

* @param {Array} b 集合B

* @returns {Array} 两个集合的差集

*/

Array.minus = function(a, b) {

return a.uniquelize().each(function(o) {return b.contains(o) ? null : o});

};
```

* 求两个集合的并集

{%example

/**

```
<script>
var a = [1, 2, 3, 4];
var b = [3, 4, 5, 6];
alert (Array. union (a, b));
</script>
%}
* @param {Array} a 集合A
* @param {Array} b 集合B
* @returns {Array} 两个集合的并集
*/
Array. union = function(a, b) {
return a.concat(b).uniquelize();
};
巧妙的两个数组比较去重
var arr1 = ["i", "b", "c", "d", "e", "f", "x"]; //数组A
var arr2 = ["a", "b", "c", "d", "e", "f", "g"];//数组B
var temp = []; //临时数组1
var temparray = [];//临时数组2
for (var i = 0; i < arr2. length; i++) {
temp[arr2[i]] = true;//巧妙地方: 把数组B的值当成临时数组1的
键并赋值为真
};
for (var i = 0; i < arr1.length; i++) {
```

```
if (!temp[arr1[i]]) {
```

temparray. push (arr1[i]);//**巧妙地方**: 同时把数组A的值当成临时数组1的键并判断是否为真,如果不为真说明没重复,就合并到一个新数组里,这样就可以得到一个全新并无重复的数组

```
} ;
};
document.write(temparray.join(",") + "");
// 求数组差值(去重 arr1有arr2没有的)
function minus (arr1, arr2) {
        var newArr1 = [];
        var newArr2 = [];
        for(var i in arr1) {
                newArr1.push(arr1[i].name);
        }
        for(var i in arr2) {
                newArr2. push (arr2[i]. name)
        }
        console. log(newArr1)
        console. log(newArr2)
        var temp = []; //临时数组1
        var temparray = []; //临时数组2
        for (var i = 0; i < newArr2. length; i++) {
                temp[newArr2[i]] = true;
        };
        for (var i = 0; i < newArr1.length; <math>i++) {
                if(!temp[newArr1[i]]) {
                        temparray.push(newArr1[i]);
```

```
};
};
return temparray;
}
var noPowers = minus(list_control, list);
```