

TEST 1:

INPUT:
▼ Array[3] ③ ▼ 0: Array[3] 0: 1 1: 2 2: 3 length: 3 ▶ __proto__: Array[0] ▼ 1: Array[2] 0: 5 1: 6 length: 2 ▶ __proto__: Array[0] ▼ 2: Array[3] 0: 7 1: 8 2: 9 length: 3 ▶ __proto__: Array[0] length: 3 ▶ __proto__: Array[0]
OUTPUT:
▶ [1, 2, 3, 5, 6, 7, 8, 9]
>

TEST 3:

INPUT:
▼ Array[1] ③ ▼ 0: Array[2] 0: 1 ▼ 1: Array[2] 0: 2 ▼ 1: Array[2] 0: 3 ▼ 1: Array[1] 0: 4 length: 1 ▶ __proto__: Array[0] length: 2 ▶ __proto__: Array[0] length: 2 ▶ __proto__: Array[0] length: 2 ▶ __proto__: Array[0] length: 1 ▶ __proto__: Array[0]
OUTPUT:
▶ [1, 2, 3, 4]
>

TEST 2:

INPUT:
▼ Array[2] ③ ▼ 0: Array[2] 0: 1 ▼ 1: Array[2] 0: 2 1: 3 length: 2 ▶ __proto__: Array[0] length: 2 ▶ __proto__: Array[0] ▼ 1: Array[3] 0: 7 1: 8 ▼ 2: Array[2] 0: 9 1: 10 length: 2 ▶ __proto__: Array[0] length: 3 ▶ __proto__: Array[0] length: 2 ▶ __proto__: Array[0]
OUTPUT:
▶ [1, 2, 3, 7, 8, 9, 10]
>

```
1 <html>
2   <body>
3   </body>
4   <script>
5     <!--source code: http://stackoverflow.com/questions/10865025/merge-flatten-an-array-of-arrays-in-javascript-->
6     flatten=function(arr) {
7       return arr.reduce(function (flat, toFlatten) {
8         return flat.concat(Array.isArray(toFlatten) ? flatten(toFlatten) : toFlatten);
9       }, []);
10    }
11    var arr=[[1,[2,[3,[4]]]]]
12    console.log("INPUT:");
13    console.log(arr);
14    console.log("OUTPUT:");
15    console.log(flatten(arr));
16  </script>
17 </html>
18
```