

题目描述

给定一个无序的数组，删除所有的重复元素，使得每个元素只出现一次，并且按照出现的次数从低到高进行排序，相同出现次数按照第一次出现的顺序进行先后排序。

输入描述

一个数组

输出描述

去重并排序后的数组

用例

输入	1,3,3,3,2,4,4,4,5
输出	3,4,1,2,5
备注	数组大小不超过100 数组元素大小不超过100。

题目解析

其中的[待解决问题](#)。

JavaScript算法源码

```
1 // 题目描述
2 const readline = require("readline");
3
4 const rl = readline.createInterface({
5   input: process.stdin,
6   output: process.stdout,
7 });
8
9 rl.on("line", (line) => {
10   const arr = line.split(",");
11   console.log(getResult(arr));
12 });
13
14 /* 算法描述 */
15 function getResult(arr) {
16   const count = {};
17   const first = {};
18
19   for (let i = 0; i < arr.length; i++) {
20     const x = arr[i];
21
22     if (count[x] === 0) {
23       count[x] = 1;
24       first[x] = i;
25     }
26
27     return [...Object.keys(first)]
28       .sort((a, b) => {
29         count[a] < count[b] ? count[a] : first[a] - first[b]
30       })
31       .join(",");
32   }
33 }
```

Java算法源码

```
1 import java.util.HashMap;
2 import java.util.Scanner;
3 import java.util.StringJoiner;
4
5 public class Main {
6   public static void main(String[] args) {
7     Scanner sc = new Scanner(System.in);
8     String[] arr = sc.nextLine().split(",");
9     System.out.println(getResult(arr));
10   }
11
12   public static String getResult(String[] arr) {
13     HashMap<String, Integer> count = new HashMap<>();
14     HashMap<String, Integer> first = new HashMap<>();
15
16     for (int i = 0; i < arr.length; i++) {
17       String s = arr[i];
18       count.put(s, count.getOrDefault(s, 0) + 1);
19       first.putIfAbsent(s, i);
20     }
21
22     StringJoiner sj = new StringJoiner(",");
23     first.keySet().stream()
24       .sorted(
25         (a, b) -> {
26           let countA = count.get(a);
27           let countB = count.get(b);
28           let countA = countA < countB ? countA : countB;
29           if (countA != countB) {
30             return countA - countB;
31           } else {
32             let firstA = first.get(a);
33             let firstB = first.get(b);
34             return firstA - firstB;
35           }
36         })
37       .forEach(s -> sj.add(s));
38     return sj.toString();
39   }
40 }
```

Python算法源码

```
1 # 题目描述
2 arr = input().split(",")
3
4 # 算法描述
5 def getResult(arr):
6     count = {}
7     first = {}
8
9     for i in range(len(arr)):
10         x = arr[i]
11
12         if count.get(x) is None:
13             count[x] = 0
14             count[x] += 1
15
16         if first.get(x) is None:
17             first[x] = i
18
19     tmp = list(first.keys())
20     tmp.sort(key=lambda x: (count[x], first[x]))
21     return ",".join(tmp)
22
23 # 运行结果
```