

解法二：递归

递归设计：需要先用递归求逆序数

- 找到递归终止人
- 递归条件设置

递归终止了一个子问题求count，这个初始值设为1，因为从数组从1开始。

递归不递归，看递归终止一次，则count++，下次递归时判断count值是否已经递归过了，如果已经count重置为1，以此递归到底。

当count等于1时，表示从数组的末尾开始求逆序数递归的人，我们返回true就出来了。

递归求逆序数，递归时，当前递归函数返回后，如果递归元素个数不少于1个，那么递归的初始值1，此时第一次的递归时，第一个元素的初始值重置为上一级递归时的初始值，这个也可以看成在外边变量count中操作。

Java算法源码

```
1 import java.util.ArrayList;
2 import java.util.Scanner;
3 import java.util.StringTokenizer;
4
5 public class Main {
6     public static void main(String[] args) {
7         Scanner sc = new Scanner(System.in);
8         int n = sc.nextInt();
9         System.out.println(getResult(n));
10     }
11
12     public static String getResult(int n) {
13         if (n <= 1 || n <= 100) return "YES";
14
15         ArrayList<Integer> arr = new ArrayList<>();
16         for (int i = 1; i <= 100; i++) arr.add(i);
17
18         return getResult(arr, n, 1);
19     }
20
21     public static String getResult(ArrayList<Integer> arr, int n, int count) {
22         ArrayList<Integer> ans = new ArrayList<>();
23
24         for (Integer v : arr) {
25             if (count == n + 1) {
26                 count = 1;
27             }
28             if (count & n != 0) {
29                 ans.add(v);
30             }
31         }
32
33         if (get.size() == n) {
34             return getResult(ans, count);
35         } else {
36             StringBuffer sb = new StringBuffer("");
37             for (Integer v : ans) sb.append(v + "");
38             return v + "<br>";
39         }
40     }
41 }
42 }
```

JS算法源码

```
1 // 递归求逆序数
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 n = parseInt(line);
11     if (n <= 1 || n <= 100) {
12         return console.log("YES");
13     }
14     const arr = new Array(100).fill().map((_, index) => index + 1);
15
16     console.log(getResult(arr, n, 1));
17
18     // 2 3 4 5 6 7 8 9 10
19     // 2 3 4 5 6 7 8 9 10
20     // 2 3 4 5 6 7 8 9 10
21     // 2 3 4 5 6 7 8 9 10
22
23     // 递归求逆序数
24     function getResult(arr, n, count) {
25         arr = arr.filter(v => {
26             if (count == n + 1) count = 1;
27             return count & n;
28         });
29
30         if (arr.length == n) {
31             return getResult(arr, n, count);
32         } else {
33             return arr.join("<br>");
34         }
35     }
36 }
```

Python算法源码

```
1 n = int(input())
2 m = int(input())
3
4 def getResult(arr, n, count):
5     ans = []
6
7     for v in arr:
8         if count == n + 1:
9             count = 1
10
11             if count & n != 0:
12                 ans.append(v)
13
14     count += 1
15
16     if len(ans) == n:
17         return getResult(arr, count)
18     else:
19         return "<br>".join(map(str, ans))
20
21 n = int(input())
22 m = int(input())
23 if m <= 1 or m >= 100:
24     return "YES"
25
26 arr = [i for i in range(1, 101)]
27
28 return getResult(arr, n, 1)
29
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31 m = int(input())
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33 def getResult(arr):
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