31. Next Permutation

👍 1067   👎 297   ♡ ▾

| 🔲 Description (/problems/next-permutation/description/) | 💡 Hints (/problems/next-permutation/hints/) | 📄 Submissions (/problems/next-permutation |

⇄ Pick One (/problems/random-one-question/)

Implement **next permutation**, which rearranges numbers into the lexicographically next greater permutation of numbers.

If such arrangement is not possible, it must rearrange it as the lowest possible order (ie, sorted in ascending order).

The replacement must be **in-place (http://en.wikipedia.org/wiki/In-place_algorithm)** and use only constant extra memory.

Here are some examples. Inputs are in the left-hand column and its corresponding outputs are in the right-hand column.

```
1,2,3 → 1,3,2
3,2,1 → 1,2,3
1,1,5 → 1,5,1
```

Seen this question in a real interview before? Yes No   ✪

Difficulty:	Medium
Total Accepted:	180.7K
Total Submissions:	617K
Contributor:	LeetCode

🔵 🔵 🔴 🔵

Companies ❶ ▾

Related Topics ▾

Similar Questions ▾

❓ C++   ▾   📄 🔄 >_ ⚙

```
1
```

☐ **Custom Testcase (Contribute ❶)**   ❓ ▶ Run Code   ☁ Submit Solution

Run Code Status: Finished

Run Code Result: ✕

Your input

```
[1]
```

Your answer   Expected answer