

31. Next Permutation

Description (/problems/next-permutation/description/)

Hints (/problems/next-permutation/hints/)

Submissions (/problems/next-permutation/submissions/)

Discuss (/problems/next-permutation/discuss/)

Source

Discuss (<https://discuss.leetcode.com/category/39>)

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

Notes

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, do not allocate 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

Subscribe (/subscribe/) to see which companies asked this question.

Related Topics ▾

Similar Questions ▾

Python3 ▾

```
1 class Solution:
2     def nextPermutation(self, nums):
3         """
4         :type nums: List[int]
5         :rtype: void Do not return anything, modify nums in-place instead.
6         """
7
```

☐ Custom Testcase ([Contribute](#) ⓘ)

Run

Submit

Submission Result: **Accepted** (/submissions/detail/135803790/) ⓘ

More Details > (/submissions/detail/135803790/)

Next challenges:

- Permutations (/problems/permutations/)
- Permutations II (/problems/permutations-ii/)
- Permutation Sequence (/problems/permutation-sequence/)
- Palindrome Permutation II (/problems/palindrome-permutation-ii/)

Share your acceptance!

◀ 1

◀ 4

Check out our solution!

Reveal Solution ▶ (/articles/next-permutation/)

Copyright © 2018 LeetCode

Contact Us | Frequently Asked Questions (/faq/) | Terms of Service (/terms/) | Privacy Policy (/privacy/)

📄 Notes