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Next Permutation

Difficulty: Medium Accuracy: 40.66% Submissions: 174K+ Points: 4

Given an array of integers `arr[]` representing a permutation, implement the **next permutation** that rearranges the numbers into the lexicographically next greater permutation. If no such permutation exists, rearrange the numbers into the lowest possible order (i.e., sorted in ascending order).

Note - A permutation of an array of integers refers to a specific arrangement of its elements in a sequence or linear order.

Examples:

Input: `arr = [2, 4, 1, 7, 5, 0]`**Output:** `[2, 4, 5, 0, 1, 7]`**Explanation:** The next permutation of the given array is `[2, 4, 5, 0, 1, 7]`.**Input:** `arr = [3, 2, 1]`**Output:** `[1, 2, 3]`**Explanation:** As `arr[]` is the last permutation, the next permutation is the lowest one.

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Java (1.8)

Average Time: 20m

Your Time: 14m 9s

```
1 // } Driver Code Ends
2 // User function Template for Java
3
4 class Solution {
5     void nextPermutation(int[] arr) {
6         int n = arr.length;
7         int i = n - 2;
8         while (i >= 0 && arr[i] >= arr[i + 1]) {
9             i--;
10        }
11        if (i >= 0) {
12            int j = n - 1;
13            while (arr[j] <= arr[i]) {
14                j--;
15            }
16            swap(arr, i, j);
17        }
18        reverse(arr, i + 1, n - 1);
19    }
20    private void swap(int[] arr, int i, int j) {
21        int temp = arr[i];
22        arr[i] = arr[j];
23        arr[j] = temp;
24    }
25    private void reverse(int[] arr, int start, int end) {
26        while (start < end) {
27            swap(arr, start, end);
28            start++;
29            end--;
30        }
31    }
32 }
33 // } Driver Code Ends
```



Custom Input


Compile & Run

Submit

Compilation Results

Custom Input

Y.O.G.I. (AI Bot)

Problem Solved Successfully 

[Suggest Feedback](#)

Test Cases Passed

1111 / 1111

Attempts : Correct / Total

1 / 1

Accuracy : 100%

Points Scored 

4 / 4

Your Total Score: **61** 

Time Taken

0.87