

Python: Next Permutation

```
from typing import List
```

```
class Solution:
```

```
    def nextPermutation(self, nums: List[int]):
```

```
        n = len(nums)
```

```
        # Step 1: Find the first decreasing element from the end
```

```
        i = n - 2
```

```
        while i >= 0 and nums[i] >= nums[i + 1]:
```

```
            i -= 1
```

```
        if i >= 0:
```

```
            # Step 2: Find the next larger element from the end and swap
```

```
            j = n - 1
```

```
            while nums[j] <= nums[i]:
```

```
                j -= 1
```

```
            nums[i], nums[j] = nums[j], nums[i]
```

```
        # Step 3: Reverse the sequence after i
```

```
        nums[i + 1:] = reversed(nums[i + 1:])
```

```
# Example usage
```

```
nums = [1, 2, 3]
```

```
Solution().nextPermutation(nums)
```

```
print(nums) # Output: [1, 3, 2]
```

SQL: Consecutive Numbers

Write your MySQL query statement below

```
WITH LogsNeighbors AS (SELECT *,
    LAG(num) OVER(ORDER BY id) AS previous_num,
    LEAD(num) OVER(ORDER BY id) AS next_num
    FROM LOGS)
SELECT DISTINCT num AS ConsecutiveNums
FROM LogsNeighbors
WHERE num = previous_num AND num = next_num;
```