GIFusion Tech Assessment Solutions

## Python leetcode solution

class Solution:

def nextPermutation(self, nums: List[int]) -> None:

"""

Do not return anything, modify nums in-place instead.

"""

i = len(nums) - 2 **# takes the index started from last second element**

**# Finding pivot or small element starting index from right most element**

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

i -= 1

**# if smallest element found here we are searching for element from right most which is greater than that element**

if i >= 0:

j = len(nums) - 1 **# comparing started from last element**

while j >= 0 and nums[j] <= nums[i]: **# comparing rightmost elements with smallest** **element found in first while loop iteration**

j -= 1

nums[i] , nums[j] = nums[j] , nums[i] **# swapping the elements of i , j index**

**# to reverse the sequence of elements from i + 1 to end to get next smallest permutation value**

left , right = i+1 , len(nums)-1

while left < right:

nums[left] , nums[right] = nums[right] , nums[left]

left += 1

right -= 1

Mysql Leetcode solution

CREATE FUNCTION getNthHighestSalary(N INT) RETURNS INT

BEGIN

RETURN (

**# Write your MySQL query statement below.**

WITH high\_sal as ( **-- to store all rankings of highest salaries in sample table**

SELECT \*,DENSE\_RANK() OVER(ORDER BY salary DESC) as ranking

FROM Employee) **-- From Dense\_rank you will get all rankings without jumping or skipping its ranking whether two employees having same salaries**

SELECT DISTINCT IFNULL(salary , null) **-- if null checks first salary is NULL it will returns null**

FROM high\_sal

WHERE ranking = N **-- selecting which ranking salary person you want just like an offset**

);

END