Day - 10 Recursion & Backtracking

Problem 1: Given an array arr of distinct integers, print all permutations of String/Array.

def permute(nums):

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def backtrack(start):
    if start == len(nums):
      result.append(nums[:])
    else:
      for i in range(start, len(nums)):
        nums[start], nums[i] = nums[i], nums[start]
        backtrack(start + 1)
        nums[start], nums[i] = nums[i], nums[start]
  result = []
  backtrack(0)
  return result
arr = [1, 2, 3]
print(permute(arr))
Up
                  int(permute(arr))
          [[1, 2, 3], [1, 3, 2], [2, 1, 3], [2, 3, 1], [3, 2, 1], [3,
PINION?
          ...Program finished with exit code 0
lakuten AIP
         Press ENTER to exit console.
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