Day – 10 Recursion & Backtracking

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

```
def permute(nums):
    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))
```