## 100-Days-of-DSA

Problem Statement: Given nums[n], return an array answer, such that answer[i] is equal to the product of all elements of nums expect nums[i]

nums [] = 
$$\{1, 2, 3, 4\}$$
  
ans () =  $\{24, 12, 8, 6\}$ 

we have to multiply every index value Other than Current index Value

## Algo

- O Initialize a variable Suffix =1
- Prefix Product [i] = Prefix Product [i-1] \* Suffix
  Suffix = Suffix \* arr[i]
- 3 Prefix Product [0] = SUJfix

Explanation

$$ayr: (1 2 3 4)$$
 $pp: (x \times 3 24)$ 
 $y \times 3 24$ 
 $y \times$