Product of Array Except Self

class Solution:

def productExceptSelf(self, nums: List[int]) -> List[int]:

length = len(nums)

L , R , output = [0] \* length , [0] \* length , [0] \* length

# Lets findout left most product

# Since Array starts with 0th element,there is -1th element

L[0] = 1

for i in range(1,length):

L[i] = nums[i-1] \* L[i-1]

#Lets findout Right most product

R[length - 1] = 1

for i in reversed(range(length - 1)):

R[i] = nums[i+1] \* R[i+1]

for i in range(length):

output[i] = L[i] \* R[i]

return output