



Challenge 4: List of Products of all Elements

Given a list, modify it so that each index stores the product of all elements in the list except the element at the index itself.

We'll cover the following



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Problem Statement

Implement a function, `find_product(lst)`, which modifies a list so that each index has a product of all the numbers present in the list except the number stored at that index.

Input:

A list of numbers (could be floating points or integers)

Output:



A list such that each index has a product of all the numbers in the list except the number stored at that index.

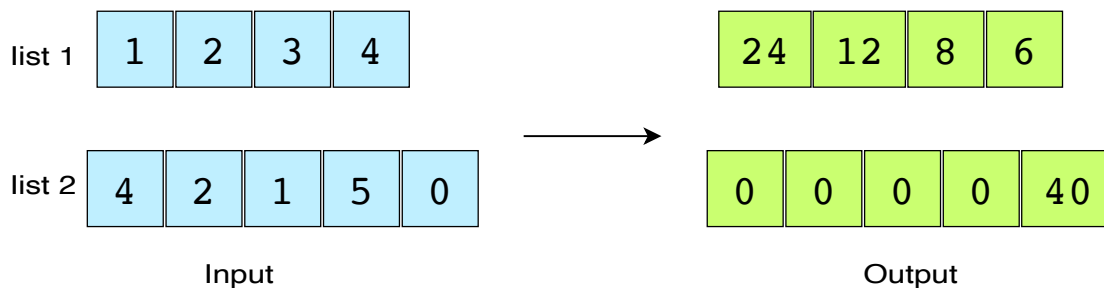


Sample Input

```
arr = [1,2,3,4]
```

Sample Output

```
arr = [24,12,8,6]
```



Coding Exercise

Take a close look and design a step-by-step algorithm first before jumping on to the implementation. This problem is designed for your practice so try to solve it on your own first. If you get stuck, you can always refer to the solution provided in the solution section. Good Luck!

```
def find_product(lst):  
    # Write your code here  
    result = []  
    for i in range(len(lst)):  
        prod = 1  
        for j in range(len(lst)):  
            if i != j:
```



```
        prod = prod * lst[j]
    result.append(prod)
    return result
```



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