## 238. Product of Array Except Self

APROACH 1=> USING DIVIDE METHOD (PRFIC CALCULATION);

=>CALCULATE THE PRODUCT OF THE ARRAY

## EDGE CASE=> IF ZERO EXIST IN THE ARRAY;

MULTIPLY ALL THE VALUES EXCEPT ZERO

And then replace alll the values in nums with zero and thr idex of zero with product;

## EDGE CASE=> IF ZERO not EXIST IN THE ARRAY;

Nums[I]= pro/nums[I]

=> becouse multiplying my elemt and dividing by same elemt do not chnge the value;

APROACH 2=>

Using prfix and suffix calculation

Calute the left product of every elemt nad store in arry named leftpro

Now calculate the right product of every elemt and store in an arry named rightpro

Now change the value of nums by left[I]\*right[I]

```
int isfound(vector<int>& nums,int ele=0){
         for(int i=0;i<nums.size();i++){</pre>
             if(nums[i]==0){
                 return i;
         return -1;
10 }
11
        vector<int> productExceptSelf(vector<int>& nums) {
12
13
             int pro=1;
14
             for(int i=0;i<nums.size();i++){</pre>
15
                 pro*=nums[i];
16
             int z=isfound(nums);
18
19
             if(z!=-1){
20
                 int pro=1;
21
                 for(int i=0;i<nums.size();i++){</pre>
22
                      if(i!=z)
23
                     pro*=nums[i];
24
25
                 for(int i=0;i<nums.size();i++){</pre>
26
                      if(i!=z){
27
                          nums[i]=0;
28
                      }else{
29
                          nums[i]=pro;
30
31
32
33
34
35
             }else{
36
                 for(int i=0;i<nums.size();i++){</pre>
37
38
                 nums[i]=pro/nums[i];
39
40
41
42
43
             return nums;
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```

```
class Solution {
public:
    vector<int> productExceptSelf(vector<int>& nums) {
        vector<int>right(nums.size());
        vector<int>left(nums.size());
        int l=1;

        for(int i=0;i<nums.size();i++){
            left[i]=l;
            l*=nums[i];
        }
        int r=1;

        for(int i=nums.size()-1;i>=0;i--){
            right[i]=r;
            r*=nums[i];
        }

        for(int i=0;i<nums.size();i++){
            nums[i]=right[i]*left[i];
        }
        return nums;
    }
};</pre>
```