

75 Days of Code

Day10 Problem no: 283

Companies

Given an integer array **nums**, move all 0's to the end of it while maintaining the relative order of the non-zero elements.

Note that you must do this in-place without making a copy of the array.

Example 1:

Input: **nums** = [0,1,0,3,12]

Output: [1,3,12,0,0]

Example 2:

Input: **nums** = [0]

Output: [0]

For this problem ,

Note - we have to do it in place means have to modify original array instead of creating of new array

1. Taking two pointers as **left = 0** , **right = 1** and loop the array while **right < array's length** .
2. Swap the two element when first element is zero and second is not .
3. If both the pointers number is zero than increase right index
4. Else increase both the pointers

```

23  */
24  function moveZeroes(nums: number[]): void {
25      let leftIndex = 0;
26      let rightIndex = 1;
27      while(rightIndex < nums.length){
28          let leftNum = nums[leftIndex];
29          let rightNum = nums[rightIndex];
30
31          if(leftNum===0 && rightNum !==0){
32              nums[leftIndex] = rightNum;
33              nums[rightIndex] = leftNum;
34          }else if (leftNum===0 && rightNum===0){
35              rightIndex++;
36          }else{
37              leftIndex++;
38              rightIndex++;
39          }
40      }
41  }
42
43
44  let ans = [0,1,0,3,12];
45  moveZeroes(ans)
46  console.log(ans);

```

```

[Running] node "c:\Users\Shubham\Desktop\75daysOfCode\75DaysOfCode\day10.js"
[ 1, 3, 12, 0, 0 ]

```