```cpp
/*
    Name: separate zeros from non-zeros in an integer array
    Copyright: Interview Practice Set
    Date: 22-09-20 13:52
*/

#include <bits/stdc++.h>
using namespace std ;

int main() {
    srand(time(NULL)) ;
    ios::sync_with_stdio(0), cin.tie(0), cout.tie(0);

    int n, st = 0 ;
    cin >> n ;
    vector<int> nums(n) ;
    fo(i, n){ cin >> nums[i] ; }
    for(int i = 0; i < n; i++){
        if(nums[i] != 0){
            nums[st++] = nums[i] ;
        }
    }
    for(int i = st; i < n; i++){
        nums[i] = 0 ;
    }
    debug() << imie(nums) ;
}
```