# Q1. <https://leetcode.com/problems/powx-n/>

## Solution:

# Q2. <https://leetcode.com/problems/power-of-two/>

## Solution*:*

# Q3. <https://leetcode.com/problems/count-good-numbers/>

## Solution:

# Q4. <https://leetcode.com/problems/sort-colors/>

## Solution:

import java.util.Arrays;  
  
*/\*\*  
 \* @author pranoy.chakraborty  
 \* @Date 27/06/2023  
 \*/*public class SortColors {  
 public static void main(String[] args) {  
 int[] arr1 = {2, 0, 2, 1, 1, 0};  
 *sortColor*(arr1);  
 System.*out*.println(Arrays.*toString*(arr1));  
 }  
  
 static void sortColor(int[] nums) {  
 int zero = 0, one = 0, two = 0;  
  
 for (int num : nums) {  
 if (num == 0) zero++;  
 else if (num == 1) one++;  
 else if (num == 2) two++;  
 }  
  
 for (int i = 0; i < nums.length; i++) {  
 if (zero != 0) {  
 nums[i] = 0;  
 zero--;  
 } else if (one != 0) {  
 nums[i] = 1;  
 one--;  
 } else {  
 nums[i] = 2;  
 }  
 }  
 }  
}

# Q5. <https://leetcode.com/problems/intersection-of-two-arrays/>

## Solution:

import java.util.ArrayList;  
import java.util.Arrays;  
import java.util.List;  
  
*/\*\*  
 \* @author pranoy.chakraborty  
 \* @Date 28/06/2023  
 \*/*public class IntersectionOfTwoArray {  
 public static void main(String[] args) {  
 System.*out*.println(Arrays.*toString*(*intersection*(new int[]{1, 2, 2, 1}, new int[]{2, 2})));  
 }  
  
 static int[] intersection(int[] nums1, int[] nums2) {  
 List<Integer> list = new ArrayList<>();  
 int[] count = new int[1000];  
 for (int num : nums1) {  
 count[num]++;  
 }  
 for (int num : nums2) {  
 if (count[num] != 0) {  
 list.add(num);  
 count[num] = 0;  
 }  
 }  
 int[] result = new int[list.size()];  
 for (int i = 0; i < result.length; i++) {  
 result[i] = list.get(i);  
 }  
 return result;  
 }  
}