30 Days Leetcode Challenge - Day 8

public class leetday8

{

class Solution1 {

public void sortColors(int[] nums)

{

int low = 0;

int mid = 0;

int n = nums.length;

int high = n-1;

while (mid <= high)

{

if(nums[mid]==0)

{

int temp = nums[low];

nums[low] = nums[mid];

nums[mid] = temp;

low++;

mid++;

}

else if (nums[mid]==1)

{

mid++;

}

else

{

int temp = nums[mid];

nums[mid] = nums[high];

nums[high] = temp;

high--;

}

}

}

}

class Solution2 {

public int majorityElement(int[] nums)

{

int n=nums.length;

int ctr1=0;

int ele=0;

for(int i=0;i<n;i++)

{

if(ctr1==0)

{

ctr1++;

ele=nums[i];

}

else if(nums[i]==ele)

{

ctr1++;

}

else{

ctr1--;

}

}

int ctr2=0;

for(int i=0;i<n;i++)

{

if(nums[i]==ele)

{

ctr2++;

}

}

if(ctr2>n/2)

{

return ele;

}

return -1;

}

}

}