Practical-4

AIM: Sort Colors: Given an array nums with n objects colored red, white, or blue, sort

them in-place so that objects of the same color are adjacent, with the colors in

the order red, white, and blue.

We will use the integers 0, 1, and 2 to represent the color red, white, and blue,

respectively.

Note: You must solve this problem without using the library's sort function.

* Program

class Solution {

public:

void sortColors(vector<int>& nums) {

int low = 0, mid = 0, high = nums.size() - 1;

while(mid <= high){

if(nums[mid] == 0){

swap(nums[mid], nums[low]);

low++;

mid++;

}

else if(nums[mid] == 1){

mid++;

}

else{

swap(nums[mid], nums[high]);

high--;

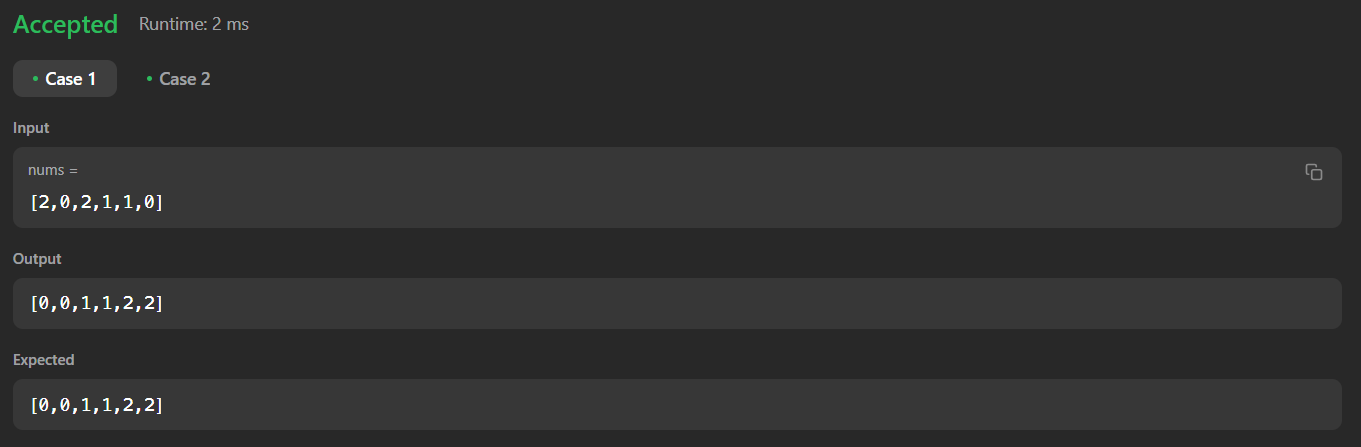
}

}

}

};

* Output



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Student Signature Faculty Signature Marks