Lab Program - 1 02/05/24

448. Find all numbers Disappeared in an array

Give an array nums of n integers where nums[i] is in the range [1, n], return an array of all the integers in the range [1, n] that do not appear in nums.

Example 1:
Input: nums = [4, 3, 2, 7, 8, 2, 3, 1]
Output: [5, 6]

Example 2: nums = [1, 1]
Output: [2]

```
#include <stdio.h>
#include <stdlib.h>
int* findDisappearedNumbers(int* nums, int numSize,
        int* returnSize) {
    for (int i = 0; i < numsize ; i++) {
        int index = abs(nums[i] - 1;
        nums[index] = -abs(nums[index]);
    }
int* missing = (int*)malloc(sizeof(int)*
                    numsSize);
int count = 0;
```

```
for (int i = 0; i < numsSize ; i++) {
    if (nums[i] > 0) {
        missing [count++] = i+1;
    }
}
*returnSize = count;
return missing;
}
```

Output

Case-1:

Nums = [4, 3, 2, 7, 8, 2, 3, 1]

Output: [5, 6]

3/5/24

Case 2:-

nums = [1, 1]

output = [2]