2/05/24

Lab 1 (ADA)

Find all numbers disappeared in an array

Program:

```
int *findDisappearedNumbers(int *nums,
int numsSize, int *returnSize){

    int *disappeared;
    int *count =(int*) malloc(numSize
                    *sizeof(int))
    for(i=0; i<numsize ; i++)
            counts(num[i] -1)++;
    }
    int missingCount = 0;
    for (i=0; i<numSize ; i++){
        if (counts[i] == 0){
                missingCount++;
        }
    }
disappeared =(int*) malloc(missingCount *sizeof
                    (int));
*returnSize =missingCount;

    int index=0;
    for (i=0; i<numsSize ; i++){
        if( counts[i] == 0){
                disappeared [index++] = i+1;
    }
}
    free(counts);
    return disappeard;
}
```

o/p.

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

o/p = [5, 6]

Expected : [5, 6]

nums : [1, 1]

o/p : [2]

Expected : [2]

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