

PROCTORED CODING CHALLENGES

B. Tech 3rd Year CSE
Season: Winter 2023-2024

Kapil Singh
2100290100082

Week – 1

1. Max Consecutive Ones (485)

PROGRAM :

```
class Solution {
public:
    int findMaxConsecutiveOnes(vector<int>& nums) {
        int cnt=0,ans=0;
        for(auto i: nums) {
            if(i==1) cnt++;
            else ans=max(ans,cnt),cnt=0;
        }
        return max(ans,cnt);
    }
};
```

2. Missing Number (268)

PROGRAM :

```
class Solution {
public:
    int missingNumber(vector<int>& nums) {
        int sum=0,n=nums.size();
        for(int i:nums){
            sum+=i;
        }
        return (n*(n+1))/2 - sum;
    }
};
```

3. Single Number (136)

PROGRAM :

```
class Solution {
public:
    int singleNumber(vector<int>& nums) {
        int res=0;
        for(auto i:nums)
            res^=i;
        return res;
    }
};
```