

268. Missing Number

APPROACH ->1;

USE AP SERIES FORMULA $N(N+1)/2$;

APPROACH2->SORT

SORT THE ARRAY;

-> $(A[i-1] - A[i]) \neq 1$ -> RETURN $A[i]+1$;

APPROACH->3

IF INDEX IS NOT EQUAL TO NUMBER RETURN I

```
class Solution {  
public:  
    int missingNumber(vector<int>& nums) {  
        int n=nums.size();  
        sort(nums.begin(),nums.end());  
        for(int i=0;i<n;i++){  
            if(nums[i]!=i){  
                return i;  
            }  
        }  
        return n;  
    }  
};
```