1. Design the Logic to Find a Missing Number in a Sorted Array.

#include<iostream>

using namespace std;

int main() {

int nums[] = {0,1, 2, 3 , 5}; //number from 0 to n

int n = sizeof(nums) / sizeof(nums[0]);

int allXOR = 0;

for(int i=0; i <=n; i++) {

allXOR ^=i;

}

for(int i=0; i<n; i++) {

allXOR ^=nums[i];

}

cout<<"Missing number : "<< allXOR <<endl;

}

OUTPUT :

