```
hw_single Element in a Sorted Array
You are given a sorted array consisting of only integers where every element appears exactly twice, except for one element which appears exactly once.
Return the single element that appears only once.
Your solution must run in O(log n) time and O(1) space.
Input Format
An integer N. Array of length N.
Constraints
1 <= nums.length <= 105 0 <= nums[i] <= 105
Output Format
 9
1 1 2 3 3 4 4 8 8
Sample Output 0
Sample Input 1
 7
3 3 7 7 10 11 11
Sample Output 1
                                                                             m-1 /= m+1
    3=0, 6=0-1
                                                                                 Estana Oss
         wildeszess &
               int mid= · ->
               "H(3==0)
                     Com JASO mendese
                     and even
            # (mid-1. 1=0) &
                  If (astroid==costmissis)
                         BE mid-i)
                     else s=mid+1";
                              if collect = acollect 2+2])
                                       3 = 10, 12, 47
                                       8= m21
               Submitted Code
                Language: Java 15
                1 import java.io.*;
2 import java.util.*;
                                                                     Sample Input 0
                 public class Solution {
                   public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);
                       int n = sc.nextInt();
int arr[] = new int[n];
for(int i=0;i<n;i++)arr[i]=sc.nextInt();</pre>
                                                                        1 1 2 3 3 4 4 8 8
                        System.out.print(uniqueElement(arr));
                                                                     Sample Output 0
                    public static int uniqueElement(int [] arr){
   int s=0, e=arr.length-1;
   2
                       while(s<=e){
int mid = s +(e-s)/2; \forall
```