You are given a sorted array consisting of only integers where every element appears exactly twice, except for one element which appears exactly once.

```
arr = [1,1,2,2,3,3,4,4,5,6,6]
output = 5

arr = [1,2,2,3,3,4,4,6,6]
output = 1

arr = [1,1,4,4,6]
output = 6

1, 1, 2, 2, 4, 4, 5, 6, 6, 7, 7

0 1 2 3 4 5 6 7 8 9 10

Fi = 0, last = 10, mid = 5
Fi = mid + 1, fi = 6, last = 10, mid = 8
Fi = 6, last = 7, mid = 6
```

[1 1 2 2 3 4 4]

\

```
#include <bits/stdc++.h>
using namespace std;
int missingNumber(vector<int> v) {
    int first = 0, last = v.size() -1, mid = 0, temp =0;
    if(v.size() == 1) return v[0];
    while(first <= last) {</pre>
        mid = first + (last-first)/2;
        if(mid % 2 == 0) {
            temp = mid +1;
        }
        else {
           temp = mid - 1;
        if(v[temp] == v[mid]) {
            first = mid +1;
        else {
            last = mid - 1;
        }
    return v[first];
}
int main() {
    vector<int> v = \{1, 1, 4, 4, 5, 6, 6, 7, 7, 8, 8\};
    cout <<missingNumber(v);</pre>
     // your code goes here
     return 0;
}
```

There are different types of tours and combos at Headout as given in example:

```
Combos; A,B,C,D (Name)
Tours: 1,2,3,4,5,6 (Name, Price)
A - 1, 2, 3
B - 2, 3, 4
C - 4, 5, 6
D - 1, 2, 3, 4, 5, 6
2 ways :
  1. Combos, Tours, Combo_id-Tour_id(CT_table) -
     Combo id, tours <>
  2. Denormalised schema -
     Combo, Tours <>
Queries 👍
  1. Data = Select * from CT_table where combo_id = "huhif";
  2. totalPrice = 0;
  3. for (item, 0->size(data){
           Item price = Select price from tours where tour id =
     item.id
           totalPrice += Item price
     }
```