/\* Given an array of size *n*, find the majority element. The majority element is the element that appears **more than**⌊ n/2 ⌋ times.

You may assume that the array is non-empty and the majority element always exist in the array.

\*/

class Solution {

public int majorityElement(int[] nums) {

HashMap<Integer,Integer> map = new HashMap<>();

for(int elem:nums){

if(map.containsKey(elem)){

map.put( elem, map.get(elem)+1 );

}

else

map.put( elem, 1);

}

for(Map.Entry<Integer, Integer> entry:map.entrySet()){

//int key=entry.getKey();

int count=entry.getValue();

if( count > nums.length/2){

return entry.getKey();

}

}

return -1;

}

}