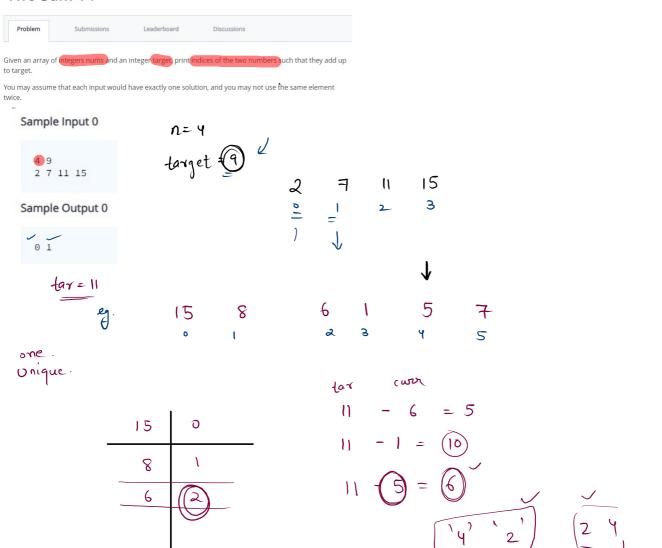
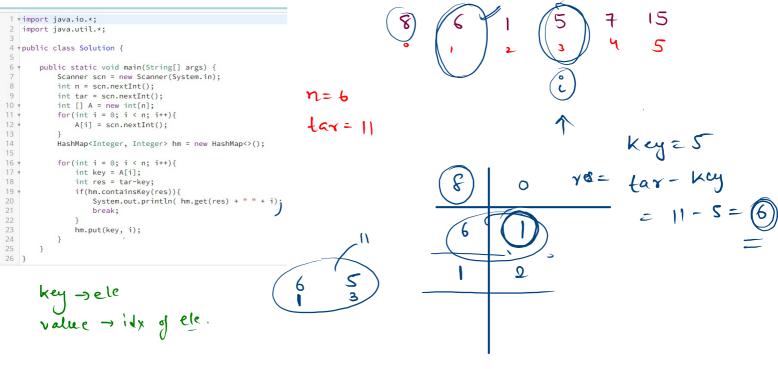
## Two Sum 14





# 1207. Unique Number of Occurrences Given an array of integers arr, return true if the number of occurrences of each value in the array is unique or false otherwise. Example 3: Input: arr = [-3,0,1,-3,1,1,-3,10,0] Output: true 0 10 1. freq met. 2. values are unique. 2 3 1 2 3 11 4 4 4 4 4 4

Input: arr = 
$$[1,2,2,1,1,3]$$
Output: true
Explanation: The value 1
No two values have the sa

2  $\rightarrow$  2

Input: arr =  $[1,2]$ 
Output: false

Ag.  $\rightarrow$  1

2

Input: arr =  $[1,2]$ 
Output: false

Ag.  $\rightarrow$  1

2

Input: arr =  $[1,2]$ 
Output: false

Ag.  $\rightarrow$  1

Ag

```
Unique
```

```
class Solution {
   public boolean uniqueOccurrences(int[] arr) {
        //1. create freq map
       HashMap<Integer, Integer> hm = new HashMap<>();
        for(int i = 0; i < arr.length; i++){
            if(hm.containsKey(arr[i])){
                int val = hm.get(arr[i]);
                hm.put(arr[i], val + 1);
            else{
                hm.put(arr[i], 1);
        //2. hashset: values
        HashSet<Integer> hs = new HashSet<>();
        for(int key : hm.keySet()){
            hs.add(hm.get(key));
        return hs.size() == hm.size();
   }
```

1 +

2 v

4

7

9

10 -

15

21 22

23

16 \*

5 v

£ 1, 2, 3

\_\_\_\_ L

values.

Unique. key hm +sizec) 3 218

#### 1679. Max Number of K-Sum Pairs

Medium ₺ 2907 ♀ 70 ♡ Add to List ₺ Share

You are given an integer array nums and an integer k.

In one operation, you can pick two numbers from the array whose sum equals k and remove them from the array.

Return the maximum number of operations you can perform on the array.

Input: nums = 
$$[1,2,3,4]$$
, k = 5

Output: (2)



Input: nums = [3,1,3,4,3], k = 6

Output: 1

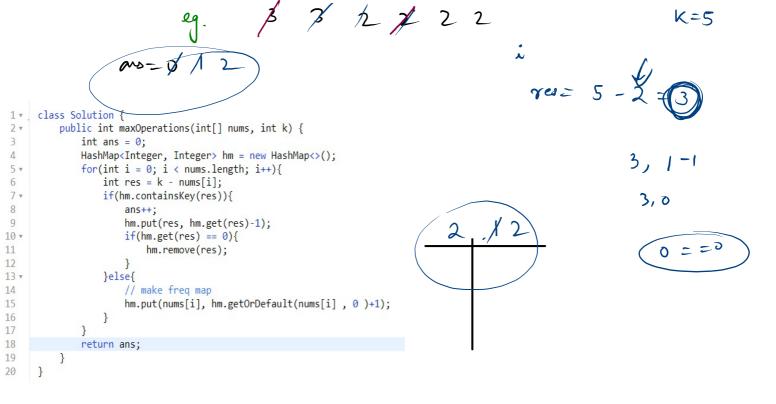
Step = 1

3

1 Step 
$$\rightarrow$$
 2 numbers

R= 6

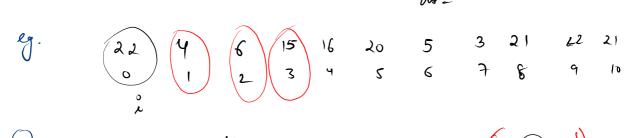
$$\frac{3}{1} \qquad \frac{1}{1} \qquad \frac{3}{1} \qquad \frac{3}$$

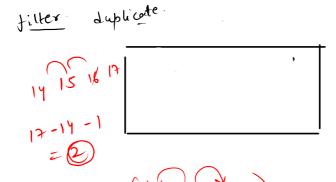


#### 128. Longest Consecutive Sequence

Given an unsorted a<u>rray of integers</u> nums, return the length of <u>the longest</u> consecutive elements sequence.

You must write an algorithm that runs in O(n) time.





#### Example 1:

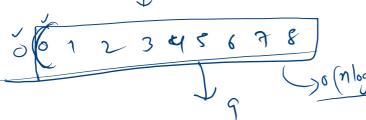
Input: nums = [100,4,200,1,3,2]

Output: 4

Explanation: The longest consecutive elements sequence is [1, 2, 3, 4]. Therefore its length is 4.

### Example 2:

Input: nums = [0,3,7,2,5,8,4,6,0,1]Output: 9



(00) 200

(N)

