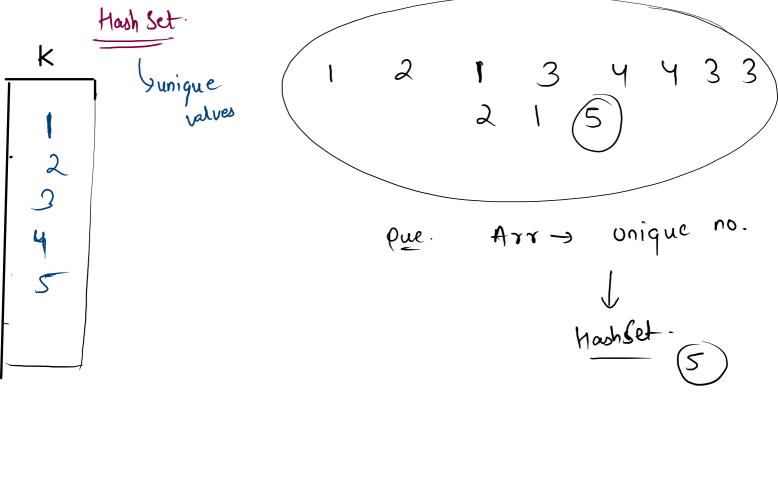


```
public class Solution {
    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
        int n = scn.nextInt();
        int min = Integer.MAX_VALUE;
        int max = Integer.MIN_VALUE;
        HashMap<Character, Integer> hm = new HashMap<>();
        for(int i = 0; i < n; i++){
            char ch = scn.next().charAt(0);
            min = Math.min(min, ch);
            max = Math.max(max, ch);
            hm.put(ch, hm.getOrDefault(ch, 0)+ 1);
        }
        //print
        while(min <= max){
            char key = (char)(min);
            if(hm.containsKey(key)){
                System.out.println(key + " " + hm.get(key));
            min++;
```

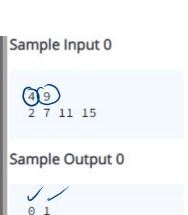
import java.io.*;
import java.util.*;



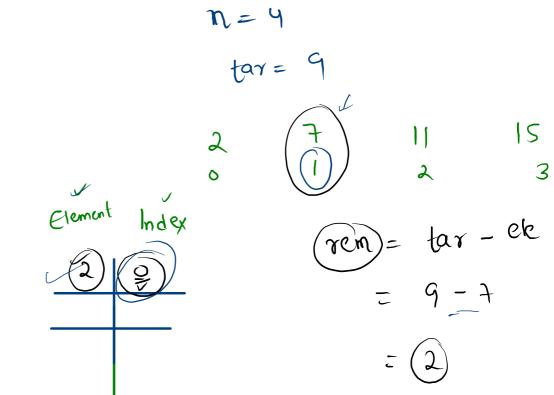
Hash Set.

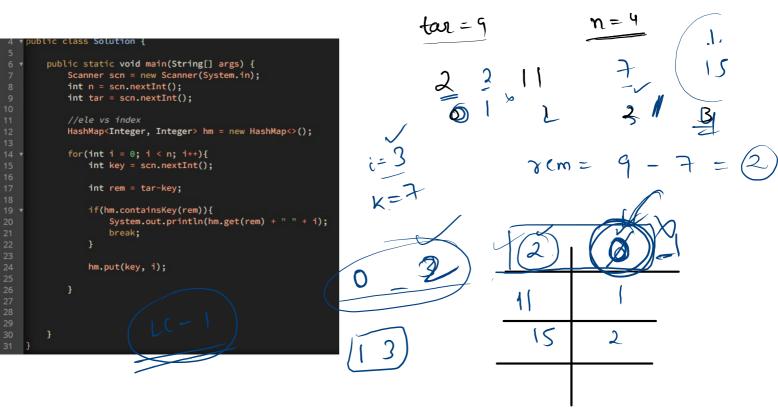
```
1 import java.util.HashSet;
   public class Main
        public static void main(String[] args) {
            HashSet<Integer> hs = new HashSet<>();
            hs.add(10);
            hs.add(20);
            hs.add(30);
10
            hs.add(10);
11
12
            hs.remove(30);
13
            System.out.println(hs.size());
14
15 -
            if(hs.contains(30)){
                System.out.println("Present");
16
17
18
19
20
```

Two Sum 14









class Solution { public boolean uniqueOccurrences(int[] arr) { //step 1 HashMap<Integer, Integer> freq = new HashMap<>(); for(int key : arr){ freq.put(key, freq.getOrDefault(key, 0) + 1); //freq val vs true /false HashMap<Integer, Boolean> hm = new HashMap<>(); for(int key : freq.keySet()){

1 *

2 +

3

4

5 v

7 8

9

13

16

14 v

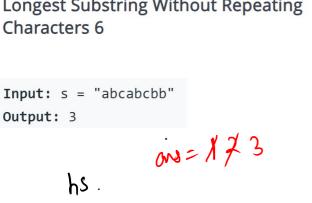
int val = freq.get(key);
if(hm.containsKey(val)){

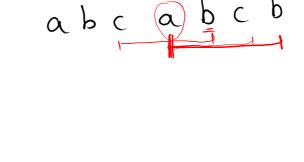
return false:

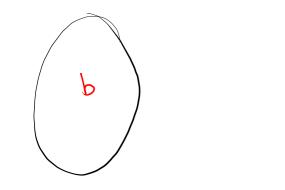
hm.put(val, true);

return true;

Longest Substring Without Repeating









will acquire with i of release with i

bacabcd_i 08=4, as = 8xx

```
class Solution {
2 *
          public int lengthOfLongestSubstring(String s) {
              HashSet<Character> hs = new HashSet<>();
              int ans = 0;
              int i = 0, j = 0;
              //i to add
              //j to remove
8 +
              while(i < s.length()){</pre>
                  char ch = s.charAt(i);
                  if(hs.contains(ch)){
10 +
                      //remove
                      hs.remove(s.charAt(j));
15 ₹
                  else{
                      //add
                      hs.add(ch);
                      i++;
                  ans = Math.max(ans, hs.size());
              return ans;
```

3

4

6

9

11

12 13 14

16

17

18

19 20

21 22 23

24 25

11