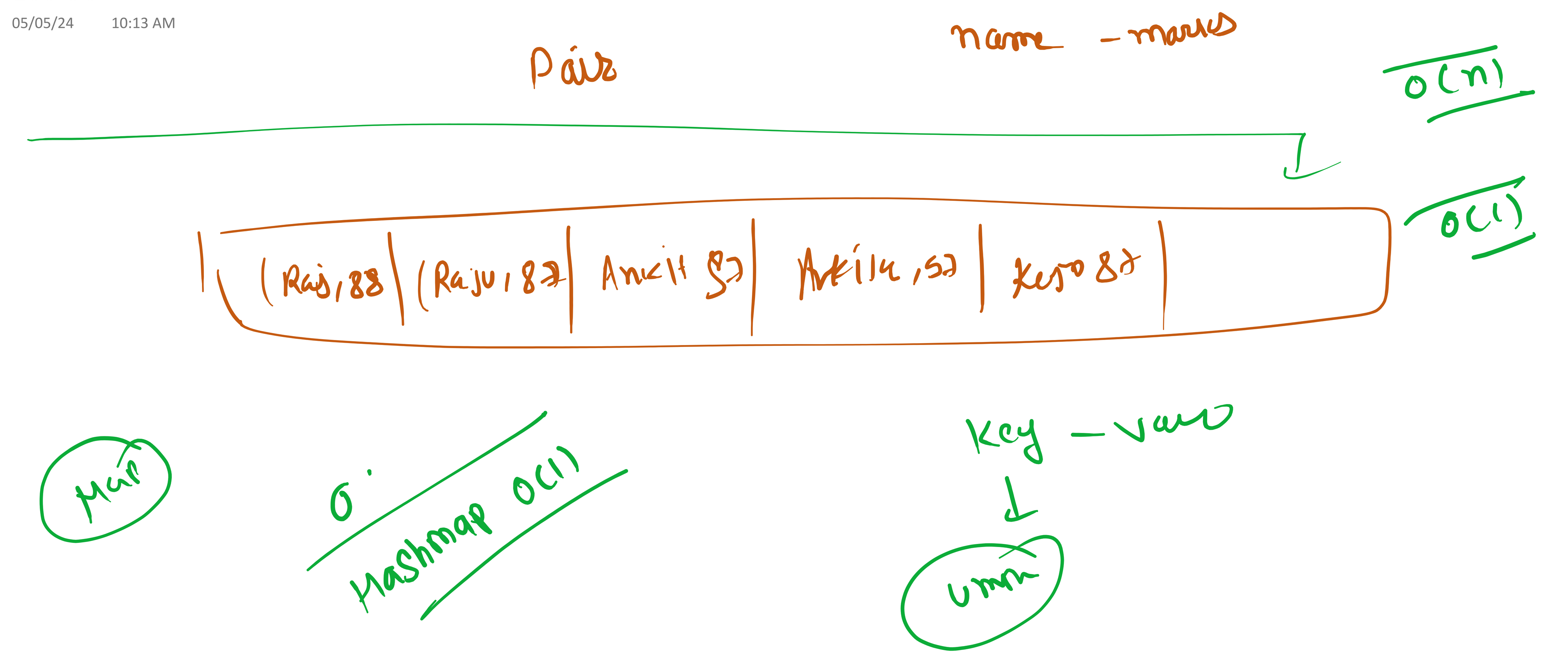
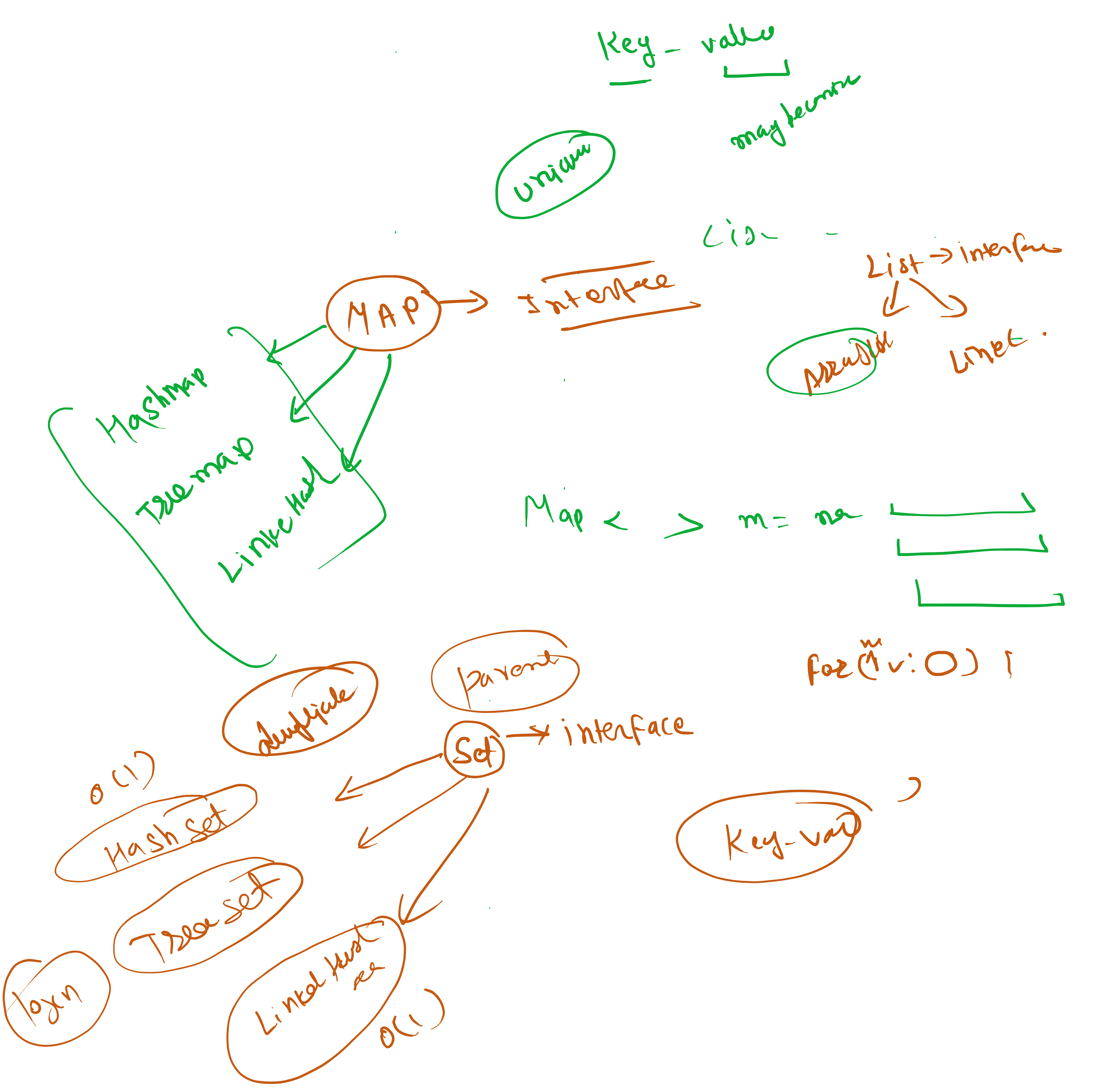
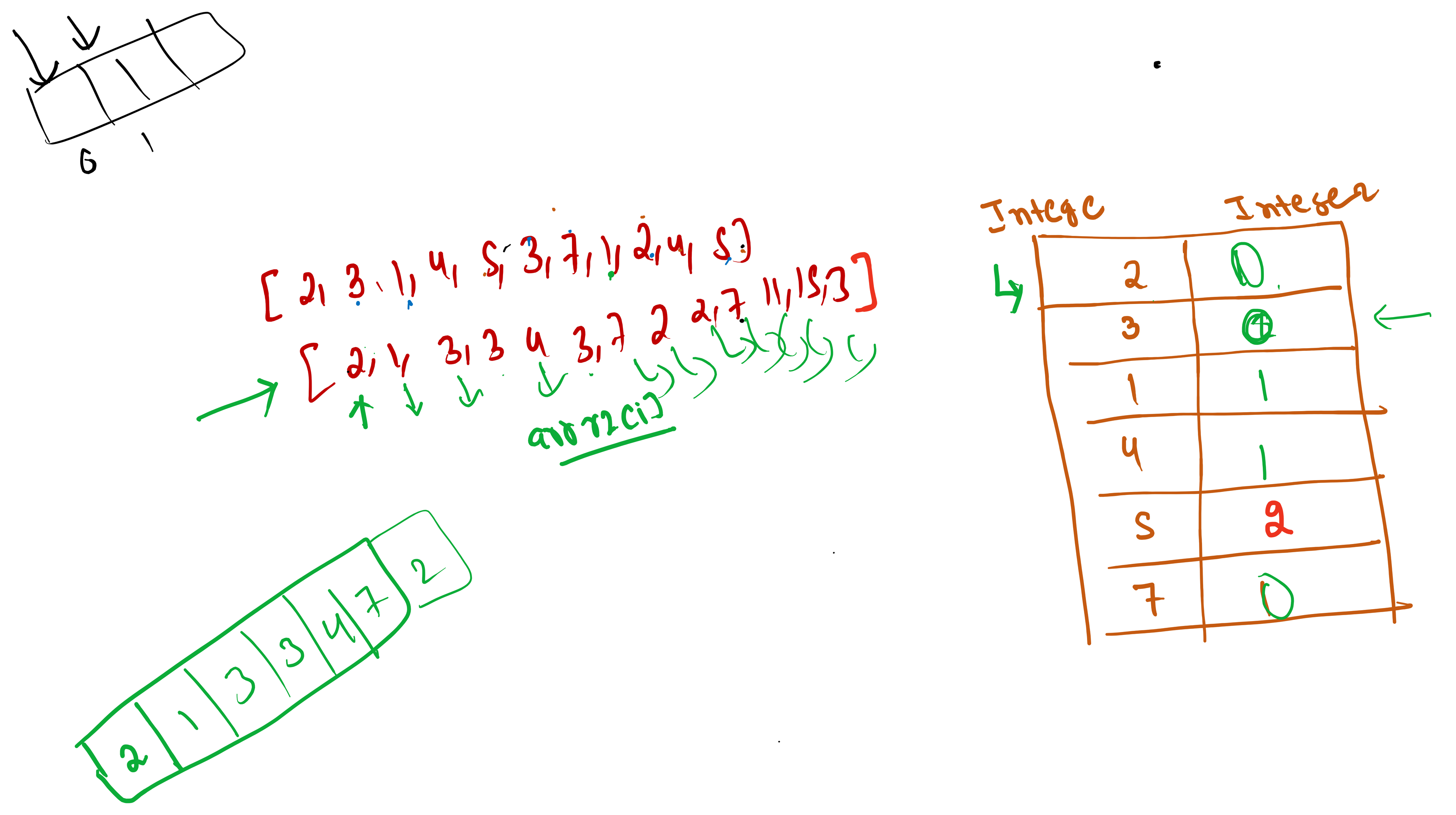
Lec-36

05/05/24 10:13 AM







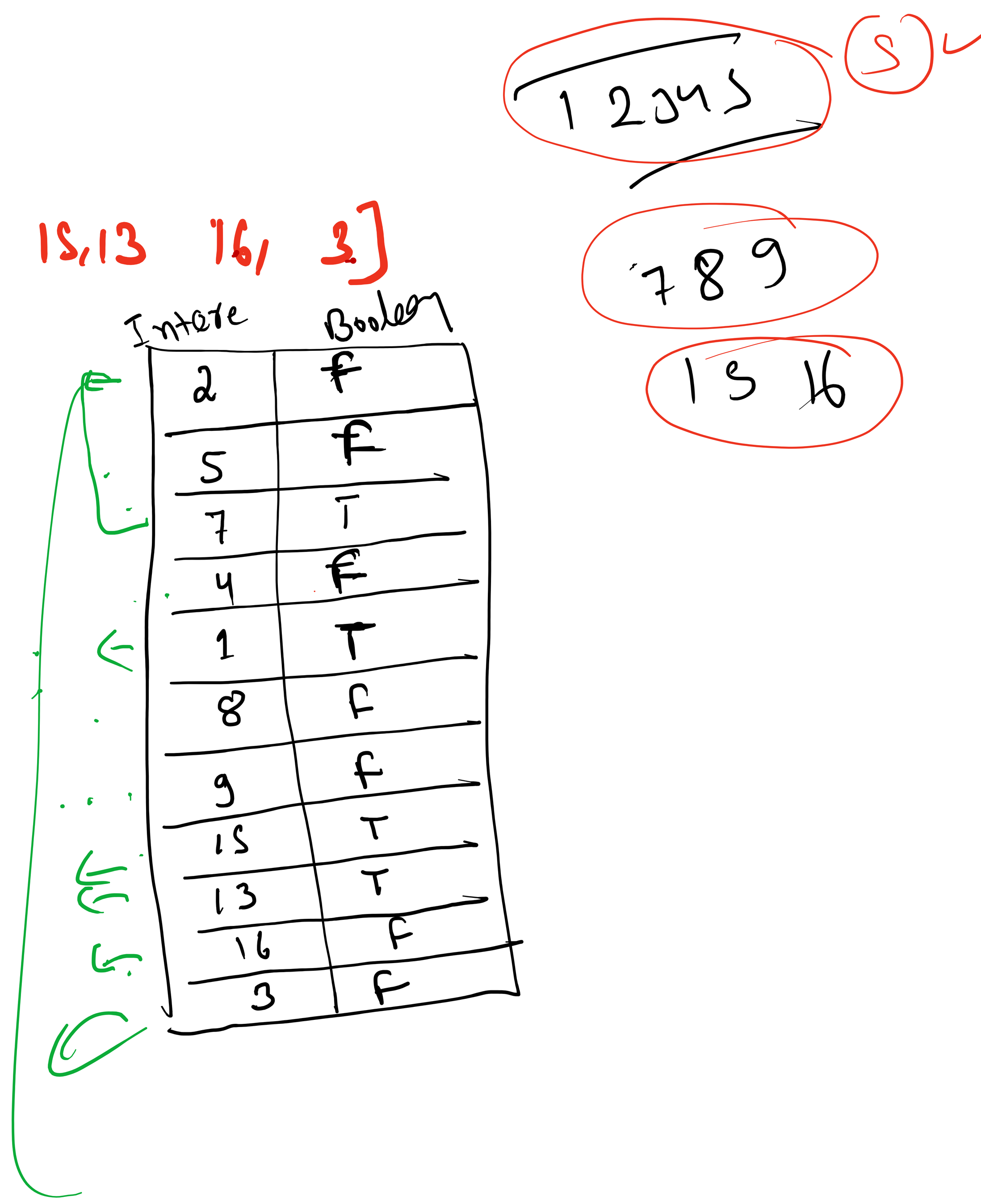

```java
public static void main(String[] args) {
        // TODO Auto-generated method stub
        int[] arr1 = { 1, 2, 2, 1 };
        int[] arr2 = { 2, 2 };
        System.out.println(Arrays.toString(Intersection(arr1, arr2)));
    }

    public static int[] Intersection(int[] arr1, int[] arr2) {
        HashMap<Integer, Integer> map = new HashMap<>();
        for (int i = 0; i < arr1.length; i++) {

            if (map.containsKey(arr1[i])) {
                map.put(arr1[i], map.get(arr1[i]) + 1);
            } else {
                map.put(arr1[i], 1);
            }
        }
        List<Integer> ll = new ArrayList<>();
        for (int i = 0; i < arr2.length; i++) {
            if (map.containsKey(arr2[i]) && map.get(arr2[i]) > 0) {
                ll.add(arr2[i]);
                map.put(arr2[i], map.get(arr2[i]) - 1);
            }

        }
        int[] ans = new int[ll.size()];
        for (int i = 0; i < ll.size(); i++) {
            ans[i] = ll.get(i);
        }

        return ans;
    }
```




```java
int ans=0;
    for (int key :map.keySet()) {
        if(map.get(key)) {
            int c=0;
            while(map.containsKey(key)) {
                c++;
                key++;
            }
            ans = max (ans, c)
        }
    }
```