Given an array **arr[]** with repeated elements, the task is to find the maximum distance between two occurrences of an element.

Note: You may assume that every input array has repetitions.

**Examples:**

**Input:** arr = [1, 1, 2, 2, 2, 1]

**Output:** 5

**Explanation:** distance for 1 is: 5-0 = 5, distance for 2 is : 4-2 = 2, So max distance is 5.

**Input:** arr = [3, 2, 1, 2, 1, 4, 5, 8, 6, 7, 4, 2]

**Output:** 10

**Explanation:** maximum distance for 2 is 11-1 = 10, maximum distance for 1 is 4-2 = 2 ,maximum distance for 4 is 10-5 = 5, So max distance is 10.

class Solution {

    public int maximumDistance(int [] nums , int n) {

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

        int max = -1;

        for(int  i = 0 ;  i< n ; i++){

            if(map.contains(nums[i])){

                max = math.max(max , i - map.get(nums[i]));

            }else{

                map.put(nums[i] , i);

            }

        }

    }

}