```
public class BucketSort {
    public static void bucketSort(int[] a){
        int n = a.length; ________n is the size of the input array
        int max = getMax(a);
        int[] bucket = new int[max+1]; -> Initialize a bucket array of size max value of
                                         input arroy + 1
        // Intializing bucket arrays
        for (int i = 0; i \le \max; i++)
                                          Let all value in the bucket be zero
            bucket[i] = 0;
        for (int i = 0; i < n; i++)
                                          Make all indexes of values of the
            Index of the values

bucket[a[i]]++; array
                                          input array be 1
        for (int i = 0, j = 0; i \le \max; i++)
                                                    Iterate through the bucket array.
                                                    Any index that has value 1 in the bucket
            while (bucket[i] > 0)
                                                   array will be inserted into the inputed array
                                                        (index is inserted not 1)
```