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**Problem 1-A :**

**public** **static** **void** FirstSecond(**int** arr[]) {

**int** firstValue = -1, secondValue = -1, firstCount = 0, secondCount = -1;

**int** min = Integer.***MAX\_VALUE***, max = Integer.***MIN\_VALUE***;

**for**(**int** i=0;i<arr.length;i++) {

**if**(min>arr[i]) {

min = arr[i];

}**else** **if**(max<arr[i]) {

max = arr[i];

}

}

**int** countHash[]=**new** **int**[max-min+1];

**for**(**int** i=0;i<arr.length;i++) {

countHash[arr[i]-min]++;

}

**for**(**int** i=0;i<arr.length;i++) {

**if**(firstCount<countHash[arr[i]-min] && countHash[arr[i]-min]>1) {

secondValue=firstValue;

secondCount=firstCount;

firstValue=arr[i];

firstCount=countHash[arr[i]-min];

}**else** **if**(secondCount<countHash[arr[i]-min] && countHash[arr[i]-min]<firstCount && countHash[arr[i]-min]>1) {

secondValue=arr[i];

secondCount=countHash[arr[i]-min];

}

}

**if**(secondCount!=-1) {

**for**(**int** i=0;i<arr.length;i++) {

**if**(arr[i]==secondValue) {

arr[i]=firstValue;

}

}

}

}

Time complexity = O(n)

Space complexity = O(max-min), where max – is the maximum value of the array and min – is the minimum value of the array.

**Problem 1-B:**

**int** N = ob.nextInt();

**for**(**int** i=0;i<N;i++) {

**for**(**int** j=0;j<(N-i-1)\*2;j++) {

System.***out***.print("-");

}

**for**(**int** j=0;j<=i\*2;j++) {

System.***out***.print("\* ");

}

System.***out***.println();

}

Time Complexity = O(n2)

Space Complexity = O(1)