```
public static int[] radixSort(int array[], int size) {
                                                                                  n - KON-BO FREMENTOB
    iterationCount = 0;
    int maxx = getMax(array, size);
    int iteration = getCountNumberPlace(maxx);
     for(int \underline{i} = 0; \underline{i} < iteration; \underline{i}++) {
          \underline{\text{array}} = countingSort(\underline{\text{array}}, \text{ size}, \text{ place: } \underline{i} + 1); \bigcirc(\land)
     0(p = n)
         iterationCount++;
                                                                                  Chominacto no nacistu;
                                                                                                O(p+n)
    return array;
                                                                public static int getCountNumberPlace(int n) {
public static int getMax(int array[], int n) {
     int max = array[0];
                                                                     while(\underline{n} != 0) {
     for (int i = 1; i < n; i++) {
                                                                          a++;
          if (array[i] > max)
               \underline{\text{max}} = \text{array}[\underline{i}];
                                                                          n /= 10;
                                                 O(n)
          iterationCount++;
                                                                          iterationCount++;
     return max;
                                                                     return a;
public static int[] countingSort(int array[], int size, int place) {
     int count[] = new int[10];
                                                            O(u+7+u)=O(9u+1)=
     int pow = (int) Math.pow(10, place - 1);
     int[] output = new int[size];
     for(int \underline{i} = 0; \underline{i} < \text{size}; \underline{i} + +) {
          count[array[<u>i</u>] / pow % 10]++;
          iterationCount++;
     for (int \underline{i} = 1; \underline{i} < 10; \underline{i} + +) {
          count[\underline{i}] += count[\underline{i} - 1];
                                                     O(10) = O(1)
          iterationCount++;
     for(int \underline{i} = size - 1; \underline{i} >= 0; \underline{i}-- ) {
          output[count[array[<u>i</u>] / pow % 10] - 1] = arr<u>ay[i</u>];
          count[array[<u>i</u>] / pow % 10]--;
          iterationCount++;
     return output;
```