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import java.util.Scanner;

public class Task18b {

    public static void sorting(char [] [] names, int n){

        int order=Integer.MAX_VALUE;

        for (char[] cs : names) {

            if (cs.length<order) {

                order=cs.length;

            }

        }

        int cnt=0;
        String addStr="";

        String [] str= new String[n];

        for (char[] cs : names) {

            for (char c : cs) {

                addStr=addStr+c;

            }

            str[cnt]=addStr;
            cnt++;
            addStr="";

        }

        for (int i = 0; i < str.length-1; i++) {

            for (int j = i+1; j < str.length; j++) {

                if (str[i].length()>str[j].length()) {

                    String swap=str[i];
                    str[i]=str[j];
                    str[j]=swap;

                }

            }

        }

    }

}
```

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    for (int i = 0; i < str.length-1; i++) {
        for (int j = i+1; j < str.length; j++) {
            if (str[i].length()==str[j].length()) {
                int k=0;
                while (k < str[i].length()) {
                    char ch1=str[i].charAt(k);
                    char ch2=str[j].charAt(k);

                    if ((int) ch1>(int) ch2) {
                        String swap=str[i];
                        str[i]=str[j];
                        str[j]=swap;
                        break;
                    }
                    else{
                        k++;
                    }
                }
            }
        }
    }

    System.out.println("Resultant order: ");
    int index=1;

    for (String string : str) {
        System.out.println(index+" "+string);
        index++;
    }
}

public static void main(String[] args) {

    System.out.print("Enter the number of Strings you want to enter: ");
    Scanner sc= new Scanner(System.in);
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    int n=sc.nextInt();
    sc.nextLine();

    char [] [] names= new char[n][20];

    for (int i = 0; i < n; i++) {
        System.out.print("Enter the string: ");
        String abc=sc.nextLine();
        names[i]=abc.toCharArray();
    }

    // for (char[] cs : names) {

    //     for (int j = 0; j < cs.length; j++) {
    //         System.out.print(cs[j]+"");
    //     }

    //     System.out.println();
    // }

    sorting(names, n);

    }
```