

## 7-DIGIT ORDERING

For the proper **ordering of the 7-digit numbers** in the string is used the same rule that applies to numbers with a smaller number of digits.

First one must know how to compare multi-digit numbers, that is to determine which number is largest than ( $>$ ), smaller than ( $<$ ) or equal ( $=$ ) to the other number.

If are observed two numbers with:

- an equal number of digits**, the larger is the one which has first greater digit from left to right,
- a different number of digits**, the larger is the one with more number of digits.



### Example 1.

a)  $5\ 643\ 821 > 3\ 896\ 453,$        $2\ 425\ 611 > 2\ 425\ 579,$

b)  $456\ 782 < 4\ 567\ 843$

**Ordering numbers into a string** means to arrange the numbers from the smallest to the largest one (**ascending order**) or from the largest to the smallest one (**descending order**).



**Example 2.** Arrange the following set of numbers in ascending and descending order.

1 245 678, 3 695 778, 3 697 778, 2 412 542, 1 738 532

**Ascending order:** 1 245 678, 1 738 532, 2 412 542, 3 695 778, 3 697 778

**Descending order:** 3 697 778, 3 695 778, 2 412 542, 1 738 532, 1 245 678