Program1:

Given a number n. Find the 2nd largest number using the same set of digits of n. Take input from STDIN and display output to STDOUT without any additional text.

Example:
Input:
54614
Output:
65414

Input:
4444
Output:
2nd largest not possible

Input:
5464
Output:
6454

Program2:

Given a number n and a set of digits between 2 to 9, generate a sequence using any combination of given digits whose sum is n. The given digits may be used any number of times to get the sum. Take input from STDIN and display output "Yes" or "No" to STDOUT without any additional text.

Example:
Input:
11
2, 3
Output:
Yes

Input:
47
3, 4, 5
Output:
Yes

Program3:

Given a string "academy", find minimum number of deletion that can make the string palindrome.

Examples:
Input:
academy

Output:
4

Test Cases:
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1. VALID INPUT:
a) Only one argument will be given as input.

2. INVALID inputs:
a) No argument
b) Two or more than two arguments.

3. You should generate output as follows:
a) Print to the STDOUT without any additional text.
b) If error print 'ERROR' to the STDOUT without any additional text.

Program4:
Given a number (of length <50 digits), generate a number taking the digits at all positions that are multiple of 7 and another with digits at all positions that are multiple of 5. Find the one which is the largest. Display -1 if max position value is less than 5. Take input from STDIN and display output to STDOUT without any additional text.

Example:
Input:
2456892
Output:
8
Input:
24563
Output:
3
Input:
2456
Output:
-1

Program5:
Remove duplicates from an array
Given an array, the task is to remove the duplicate elements from the array. Display the array in sorted order. Take input from STDIN and display output to STDOUT without any additional text.

Examples:
Input: arr[] = {2, 2, 2, 2, 2}
Output: arr[] = {2}

Input: arr[] = {1, 6, 3, 4, 4, 4, 5, 5}
Output: arr[] = {1, 3, 4, 5, 6}