

ATTEMPT ANY TWO OUT OF THREE:-

1. Given a number N as string, find the smallest number that has same set of digits as N and is greater than N. If N is the greatest possible number with its set of digits, then print "Not Possible".

Examples:

Input: N = "218765"

Output: "251678"

Explanation: The next number greater than 218765 with same set of digits is 251678.

Input: n = "1234"

Output: "1243"

Explanation: The next number greater than 1234 with same set of digits is 1243.

Input: n = "4321"

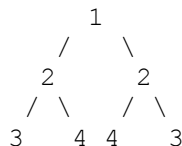
Output: "Not Possible"

Explanation: 4321 is the greatest number possible with same set of digits.

2. Given a binary tree, the task is to check whether it is a mirror of itself (i.e., symmetric around its center). A binary tree is symmetric if the left subtree is a mirror reflection of the right subtree.

Example 1 (Symmetric - True Case):

Input:



Output:

True

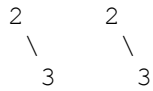
Explanation:

The tree is symmetric because the left and right halves are mirror images of each other.

Example 2 (Asymmetric - False Case):

Input:





Output:

False

Explanation:

The tree is not symmetric because the structure of the left and right subtrees is not the same.

3. Given a string, the task is to find the character that occurs the maximum number of times and the character that occurs the minimum number of times. If there are multiple characters with the same frequency, return any one of them.

Example:

Input: "examplestring"

Output:

Maximum occurring character: 'e'

Minimum occurring character: 'x'

NOTE: The minimum occurring characters are any of the characters with frequency 1 (like 'x', 'a', 'm', etc.).