**1.Problem Description**

Given two strings **A** and **B**. Find the longest common **sequence** ( A sequence which does not need to be contiguous), which is common in both the strings.

You need to return the length of such longest common subsequence.

**Problem Constraints**

1 <= |A|, |B| <= 1005

**Input Format**

First argument is an string **A**.

Second argument is an string **B**.

**Output Format**

Return the length of such longest common subsequence between string **A** and string **B**.

**Example Input**

Input 1:

A = "abbcdgf"

B = "bbadcgf"

**Example Output**

Output 1:

5

**Example Explanation**

Explanation 1:

The longest common subsequence is "bbcgf", which has a length of 5

**2. Problem Description**

Given a string **A**, find the common **palindromic sequence** ( A sequence which does not need to be contiguous and is a pallindrome), which is common in itself.

You need to return the length of **longest palindromic subsequence** in **A**.

**NOTE:**

 Your code will be run on multiple test cases (<=10). Try to come up with an optimised solution

**Problem Constraints**

1 <= |A| <= 1005  
**Input Format**

First and only argument is an string **A**.  
**Output Format**

Return a integer denoting the length of **longest palindromic subsequence** in **A**.  
**Example Input**

Input 1:

A = "bebeeed"  
**Example Output**

Output 1:

4  
**Example Explanation**

Explanation 1:

The longest common pallindromic subsequence is "eeee", which has a length of 4

**3**. Given two strings **A** and **B**, find the minimum number of steps required to convert **A** to **B**. (each operation is counted as 1 step.)You have the following 3 operations permitted on a word:

* Insert a character
* Delete a character
* Replace a character

**Input Format:**

The first argument of input contains a string, A.

The second argument of input contains a string, B.

**Output Format:**

Return an integer, representing the minimum number of steps required.

**Constraints:**

1 <= length(A), length(B) <= 450

**Examples:**Input 1:

A = "abad"

B = "abac"

Output 1:

1

Explanation 1:

Operation 1: Replace d with c.

Input 2:

A = "Anshuman"

B = "Antihuman"

Output 2:

2

Explanation 2:

=> Operation 1: Replace s with t.

=> Operation 2: Insert i.