#include <stdio.h>

int len(const char\*str)

{

    int length=0;

    while(str[length]!='\0')

    {

        length++;

    }

    return length;

}

int comp(const char\*str1, const char\*str2)

{

    int i=0;

    while(str1[i]==str2[i])

    {

        if (str1[i]!='\0')

            return 0;

        i++;

    }

    return str1[i]-str2[i];

}

void concat(char\*result, const char\*str1, const char\*str2)

{

    int i=0, j=0;

    while(str1[i]!='\0')

    {

        result[j]=str1[i];

        i++;

        j++;

    }

    i=0;

    while(str2[i]!='\0')

    {

        result[j]=str2[i];

        i++;

        j++;

    }

    result[j]='\0';

}

int main()

{

    char str1[100], str2[100], result[200];

    printf("Enter the first string: ");

    scanf("%s", str1);

    printf("Enter the second string: ");

    scanf("%s", str2);

    int length1 = len(str1);

    int length2 = len(str2);

    printf("Length of the first string: %d\n", length1);

    printf("Length of the second string: %d\n", length2);

    int compres=comp(str1, str2);

    if(compres==0)

    {

        printf("The strings are equal.\n");

    }

    else if(compres<0)

    {

        printf("The first string is greater.\n");

    }

    else

    {

        printf("The second string is greater.\n");

    }

    concat(result, str1, str2);

    printf("Concatenated string: %s\n", result);

    return 0;

}

