**Algorithm:**

int LCS( array1 , array2, m, n)

{

Int L[m+1][n+1]

For (i=0 to m+1)

L[i , 0] = 0

For ( j = 0 to n+1 )

L [ 0 , n] = 0

For ( i = 0 to m)

For ( j = 0 to n)

If xi == yj

L [ i, j ] = L[ i - 1, j - 1] + 1

Else if L[i , j] >= L[i , j-1]

L[i , j] = [i - 1, j]

Else

L[i , j] = L[i , j - 1]

Return L

}