//LCS

#include <stdio.h>

#include<string.h>

int max(int a, int b);

int lcs(char\* X, char\* Y, int i, int j)

{

if (X[i] == 0 || Y[j] == 0)

return 0;

if (X[i] == Y[j])

return 1 + lcs(X, Y, i + 1, j + 1);

else

return max(lcs(X, Y, i, j + 1),

lcs(X, Y, i + 1, j));

}

int max(int a, int b) { return (a > b) ? a : b; }

int main()

{

char S1[] = "BD";

char S2[] = "ABCD";

int m = strlen(S1);

int n = strlen(S2);

int i = 0, j = 0;

printf("Length of LCS is %d", lcs(S1, S2, i, j));

return 0;

}

