#include<bits/stdc++.h>

using namespace std;

#define fio ios\_base::sync\_with\_stdio(false);cin.tie(0);cout.tie(0);

char bktrk[50][50];

int check[51][51];

string str1,str2;

void f2(int i,int j)

{

if(i == -1 || j == -1) return ;

if(bktrk[i][j] == 'm')

{

f2(i-1,j-1);

cout<<str1[i];

}

else if(bktrk[i][j]=='s')

{

f2(i,j-1);

}

else

f2(i-1,j);

}

void f1(int m, int n)

{

int i,j;

for(i=1;i<=m;i++)

{

for(j=1;j<=n;j++)

{

if(str1[i-1]==str2[j-1])

{

check[i][j] = check[i-1][j-1]+1;

bktrk[i-1][j-1]='m';

}

else if(check[i][j-1]>=check[i-1][j])

{

check[i][j]=check[i][j-1];

bktrk[i-1][j-1]='s';

}

else

{

check[i][j]=check[i-1][j];

bktrk[i-1][j-1]='u';

}

}

}

}

int main()

{

fio;

cin>>str1;

cin>>str2;

int m = str1.size();

int n = str2.size();

f1(m,n);

f2(m-1,n-1);

return 0;

}