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/**
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DIVIOSION: INT5

*/

#include <iostream>
#include <fstream>
#include <cstring>
using namespace std;

ifstream f("factor.in");

char gsir1[105], gsir2[105];

void delete_char(char* sir, int poz)
{
    int marime=strlen(sir);
    marime--;
    for (int i=poz; i<marime; ++i)
        sir[i]=sir[i+1];
    sir[marime]=0;
}

void stergere_asemenea(char* sir1, char* sir2, bool &ok)
{
    int marime1, marime2, minima;
    marime1=strlen(sir1);
    marime2=strlen(sir2);
    minima=min(marime1,marime2);
    for (int i=0; i<minima; ++i)
    {
        if (sir1[i]==sir2[i])
        {
            delete_char(sir1,i);
            delete_char(sir2,i);
            i--;
            minima--;
            ok=true;
        }
    }
}

void verificare_shiftare(char* sir1, char* sir2, bool &ok)
{
    bool shiftat1, shiftat2;
    int marime1, marime2, minima;
    marime1=strlen(sir1);
    marime2=strlen(sir2);
    minima=min(marime1,marime2);
    minima--;
}

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for (int i=0; i<minima; ++i)
{
    shiftat1=shiftat2=false;
    if(sir1[i+1]==sir2[i])
        shiftat1=true;
    if(sir2[i+1]==sir1[i])
        shiftat2=true;
    if(shiftat1==true && shiftat2==true)
        shiftat1=false;
    if(shiftat1==true)
    {
        delete_char(sir1,i);
        delete_char(sir1,i);
        delete_char(sir2,i);
        ok=true;
        return;
    }
    if (shiftat2==true)
    {
        delete_char(sir2,i);
        delete_char(sir2,i);
        delete_char(sir1,i);
        ok=true;
        return;
    }
}
}

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int modul(int x)
{
    if (x<0)
        return -x;
    return x;
}

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void solve(char* sir1, char* sir2)
{
    bool ok=false;
    int marime1, marime2, dif, minim, rez=0;
    do{
        ok=false;
        stergere_asemenea(sir1,sir2, ok);
        verificare_shiftare(sir1,sir2,ok);
    }while(ok==true);
    marime1=strlen(sir1);
    marime2=strlen(sir2);
    minim=min(marime1,marime2);
    dif=modul(marime1-marime2);
    for (int i=0; i<minim; ++i)
    {
        rez+=(sir1[i]-sir2[i]);
    }
    rez+=dif;
    cout << rez << '\n';
}

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}  
  
int main()  
{  
    for (int acsl=1; acsl<=5; ++acsl)  
    {  
        f >> gsir1 >> gsir2;  
        solve(gsir1,gsir2);  
    }  
    return 0;  
}
```