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///Dumitrescu Bogdan
#include <iostream>
#include <fstream>
#include <string>

using namespace std;
ifstream fin("input.txt");
ofstream fout("output.txt");

int mn,i,d,scad,sum,w,fv = 5;
bool ok;
string a,b;
bool op1()
{
    bool ok = 0;
    for(i = 0; i < mn; ++ i)
        if(a[i] == b[i])
            {
                ok = 1;
                d = i;
                do
                {
                    ++ d;
                }
                while(d < mn && a[d] == b[d]);
                scad = d - i;
                a.erase(i, scad);
                b.erase(i, scad);
                mn -= scad;
                -- i;
                ok = 1;
            }
    return ok;
}
bool op2()
{
    for(i = 0; i < mn; ++ i)
        if(a[i] != b[i])
            {
                if(a[i] == b[i + 1])
                    {
                        b.erase(i, 1);
                        mn = min(a.length(),b.length()) - 1;
                        return 1;
                    }
                else if(b[i] == a[i + 1])
                    {
                        a.erase(i, 1);
                        mn = min(a.length(),b.length()) - 1;
                        return 1;
                    }
            }
    return 0;
}
int main()
{
    while(fv --)
        {
            fin >> a >> b;
            a.push_back('0');
            b.push_back('1');
        }
}

```

```
do
{
    sum = 0;
    mn = min(a.length(), b.length()) - 1;
    ok = op1();
    ok = op2();
}
while(ok);
mn = min(a.length(), b.length()) - 1;
for(i = 0; i < mn; ++ i)
    sum += a[i] - b[i];
w = max(a.length(), b.length()) - mn - 1;
fout << w + sum << '\n';
}
}
```