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///Popa Sebastian
#include <bits/stdc++.h>
using namespace std;
ifstream fin("input.txt");
ofstream fout("output.txt");
int solve(string a, string b);
void remove_alike(string &a, string &b);
bool check_removal(string &a, string &b);
int main()
{
    ios::sync_with_stdio(false);
    fin.tie(nullptr);
    int n = 5;
    for (string a, b; n; n--)
        fin >> a >> b, fout << solve(a, b) << '\n';
    return 0;
}
int solve(string a, string b)
{
    while (true)
    {
        remove_alike(a, b);
        bool okay = check_removal(a, b);
        if (!okay)
            break;
    }
    int rez = abs(int(a.size()) - int(b.size()));
    for (int i = 0; i < min(a.size(), b.size()); i++)
        rez += a[i] - b[i];
    return rez;
}
void remove_alike(string &a, string &b)
{
    for (int i = min(a.size(), b.size()) - 1; i >= 0; i--)
        if (a[i] == b[i])
            a.erase(a.begin() + i), b.erase(b.begin() + i);
}
bool check_removal(string &a, string &b)
{
    for (int i = 0; i < min(a.size(), b.size()); i++)
    {
        if (i + 1 < b.size() && b[i + 1] == a[i])
        {
            b.erase(b.begin() + i);
            return 1;
        }
        if (i + 1 < a.size() && a[i + 1] == b[i])
        {
            a.erase(a.begin() + i);
            return 1;
        }
    }
    return 0;
}
}
```