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#include <iostream>
#include <string>
#include <fstream>

using namespace std;

ifstream fin("factor.in");

//returns true if a is better than b
bool better(const string &a, const string &b){
      if(a.size() != b.size()){
            return a.size()>b.size();
      }else{
            for(int i = 0; i < a.size(); ++i){
                  int d = a[i]-b[i];
                  if(d != 0){
                        return d<0;
                  }
            }
            return false;
      }
}

string com(const string &a, const string &b){
      string r = "";
      for(int i = 0; i < a.size(); ++i){
            for(int j = 0; j < b.size(); ++j){
                  string t = "";
                  for(int k = 0; a[i+k] == b[j+k] && i+k < a.size() && j+k
< b.size(); ++k){
                        t += a[i+k];
                  }
                  if(better(t, r)){
                        r = t;
                  }
            }
      }
      return r;
}

string s1, s2;
bool isletter(char a){
      return (a >= 'a' && a <= 'z') || (a >= 'A' && a <= 'Z');
}

char toupper(char a){
      if(a >= 'a' && a <= 'z'){
            return a + ('A'-'a');
      }else{
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            return a;
      }
}

string fix(const string &s){
      string r = "";
      for(auto c : s){
            if(isletter(c)){
                  r += toupper(c);
            }
      }
      return r;
}

void read(){
      getline(fin, s1);s1 = fix(s1);
      getline(fin, s2);s2 = fix(s2);
}

int recur(string a, string b){
      string lik = com(a, b);
      if(lik != ""){
            int pa = a.find(lik);
            int pb = b.find(lik);
            int s = lik.size();
            return s+recur(a.substr(0, pa), b.substr(0,
pb))+recur(a.substr(pa+s), b.substr(pb+s));
      }else{
            return 0;
      }
}

void solve(){
      cout << recur(s1, s2) << "\n";
}

int main(){
      for(int acsl = 0; acsl < 5; ++acsl){
            read();
            solve();
      }
      return 0;
}
```