// 14-Longest\_Common\_Prefix.cpp : //

#include <iostream>

#include <vector>

#include <algorithm>

using namespace std;

class Solution {

public:

string longestCommonPrefix(vector<string> & ss)

{

if (empty(ss)) return {};

auto d = size(ss[0]);

for (auto i{ 1 }; i < size(ss); ++i)

{

d = distance(begin(ss[0]), mismatch(begin(ss[0]), begin(ss[0]) + min(d, size(ss[i])), begin(ss[i])).first);

}

return { begin(ss[0]), begin(ss[0]) + d };

}

};

int main()

{

Solution sol;

vector<string> str = { "flower","flow","flight" };

cout << "\"" << sol.longestCommonPrefix(str) << "\"" << endl; //"fl"

str = { "dog","racecar","car" };

cout << "\"" << sol.longestCommonPrefix(str) << "\"" << endl; //"fl"

}