Problem Link:

<https://leetcode.com/problems/vowel-spellchecker/?envType=daily-question&envId=2025-09-14>

Solution:

class Solution {

public:

string toLower(const string& word) {

string s = word;

for(char& ch : s)

ch = tolower(ch);

return s;

}

string devowel(const string& word) {

string s = word;

for(char& ch : s)

{

if(isVowel(tolower(ch)))

ch = '\*';

else

ch = tolower(ch);

}

return s;

}

bool isVowel(char c) {

return c == 'a' || c == 'e' || c == 'i' || c == 'o' || c == 'u';

}

vector<string> spellchecker(vector<string>& wordlist, vector<string>& queries) {

set<string> w;

map<string, string> c;

map<string, string> v;

for(const string& word : wordlist)

{

w.insert(word);

string l = toLower(word);

if(c.find(l) == c.end())

c[l] = word;

string d = devowel(word);

if(v.find(d) == v.end())

v[d] = word;

}

vector<string> r;

for(const string& q : queries)

{

if(w.find(q) != w.end())

{

r.push\_back(q);

}

else

{

string l = toLower(q);

if(c.find(l) != c.end())

{

r.push\_back(c[l]);

}

else

{

string d = devowel(q);

if(v.find(d) != v.end())

{

r.push\_back(v[d]);

}

else

{

r.push\_back("");

}

}

}

}

return r;

}

};