966. Vowel Spellchecker <medium>

/\* requires 3 has tables \*/

unordered\_map<string,string> lowerCase;

unordered\_map<string,string> vowelError;

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

int N = wordlist.size();

vector<string> answer;

unordered\_set<string> perfectWord(wordlist.begin(),wordlist.end());

/\* create hash maps \*/

for(string str: wordlist) {

string ptr = str;

transform(ptr.begin(), ptr.end(), ptr.begin(), ::tolower);

if(lowerCase.count(ptr) == 0) /\* to keep original word with all lower letters \*/

lowerCase[ptr] = str;

string vowel = vowelFree(ptr);

if(vowelError.count(vowel) == 0)

vowelError[vowel] = str;

}

//getQueries(queries,answer);

string vow;

for(string str: queries) {

string low = str;

transform(low.begin(), low.end(), low.begin(), ::tolower);

if(perfectWord.count(str)) answer.push\_back(str);

else if(lowerCase.find(low) != lowerCase.end())

answer.push\_back(lowerCase[low]);

else if(vowelError.find(vow = vowelFree(low)) != vowelError.end())

answer.push\_back(vowelError[vow]);

else

answer.push\_back("");

}

return answer;

}

string vowelFree(string lower) {

for(int i = 0; i< lower.size(); i++) {

if(lower[i] == 'a' || lower[i] == 'e' || lower[i] == 'i' || lower[i] == 'o' || lower[i] == 'u') lower[i] = '\*';

}

return lower;

}