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#include <iostream>
#include <iterator>
#include <algorithm>
#include <map>
#include <cctype>

using namespace std;

bool isValidChar(char c) {
    return !(isalpha(c));
}

int main() {
    istream_iterator<string> end;
    istream_iterator<string> ins(cin);

    map<string, int> wordFrequencies;

    while(ins != end) {
        string word = *ins++;
        word.erase(remove_if(word.begin(), word.end(), &isValidChar), word.end());

        if (wordFrequencies.find(word) != wordFrequencies.end()){
            wordFrequencies[word]++;
        }
        else {
            wordFrequencies[word] = 1;
        }
    }

    for (const auto& p : wordFrequencies) {
        cout << p.first << " : " << p.second << "\n";
    }

    cout << flush;

    return 0;
}
```