*/\**

*Filename:Wk3Pt2B.cpp*

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*Purpose:*

*- description.*

*\*/*

#include <iostream>

#include <string>

#include <cctype>

#include <algorithm>

#include <vector>

using *namespace* std;

string str;

string rotate(string *input*);

*bool* isVowel(*char* *ch*);

string pigLatinString(string *input*);

*void* sentenceToWords(string *input*);

*void* punctuation(string *word*);

string rotate(string *input*)

{

    string::size\_type len = *input*.length();

    string output;

    output = *input*.substr(1, len - 1) + *input*[0];

    return output;

}

*//*

*bool* isVowel(*char* *ch*)

{

    switch (*ch*)

    {

    case 'A':

    case 'E':

    case 'I':

    case 'O':

    case 'U':

    case 'a':

    case 'e':

    case 'i':

    case 'o':

    case 'u':

        return true;

    default:

        return false;

    }

}

*// find the pig latin form of 'input'*

string pigLatinString(string *input*)

{

    string::size\_type len;

    string::size\_type counter;

*bool* foundVowel;

    if (isVowel(*input*[0]))

*input* = *input* + "-way";

    else

    {

*input* = *input* + '-';

*input* = rotate(*input*);

        len = *input*.length();

        foundVowel = false;

        for (counter = 1; counter < len - 1; counter++)

            if (isVowel(*input*[0]))

            {

                foundVowel = true;

                break;

            }

            else

*input* = rotate(*input*);

        if (!foundVowel)

*input* = *input*.substr(1, len) + "-way";

        else

*input* = *input* + "ay";

    }

    return *input*;

};

*void* sentenceToWords(string *input*)

{

    cout << *input* << endl;

    string word;

    vector<string> sentence;

    cout << *input*.size() - 1 << endl;

    cout << endl;

    for (*int* i = 0; i < *input*.size() + 1; i++)

    {

*char* ch;

        ch = *input*[i];

        cout << ch << endl;

        if ((isalpha(ch)) || (isalnum(ch)))

        {

*// append letter to word;*

            word += ch;

            cout << "word : " << word << endl;

        }

        else

        {

            punctuation(word);

            sentence.push\_back(word);

            cout << "saved : " << word << "\n"

                 << endl;

*// save current word, begin new word;*

            word = "";

        }

    }

    cout << "\nsentence : " << sentence.size() << endl;

    for (*int* j = 0; j < sentence.size(); j++)

    {

        cout << pigLatinString(sentence.at(j)) << ' ';

    }

    cout << "\n\n"

         << endl;

}

*void* punctuation(string *word*)

{

*// add punctuation to end of sentence*

*// search string, if any symbols in the symbols array are found save them*

*// and add them to the end of the sentence*

    vector<*char*> symbols{',', '.', '?', ';', ':', '!'};

    for (*int* j = 0; j <= symbols.size() - 1; j++)

    {

*char* symbol = symbols[j];

        cout << "symbol : " << symbol << endl;

*int* len = *word*.length() + 1;

        cout << "word length : " << len << endl;

        cout << *word*.find(symbol, 0) << endl;

        if (*word*.find(symbol, 0) == 8)

        {

*word* = *word*.substr(0, len) + symbol;

            cout << "word : " << *word* << endl;

        }

    }

}

*// initiate program, get input, pass to pigLatinString();*

*int* main()

{

    string sentence;

    cout << "Enter a sentence! : " << endl;

    cout << ">> ";

    getline(cin, sentence);

    sentenceToWords(sentence);

    return 0;

};

