#include"stdafx.h"

#include <stdio.h>

#include "string.h"

#include "ctype.h"

**void** **printLongestWord**();

**int** **findWord**(**char** word[]);

**int** **findWordWithMostVowels**();

**int** **isVowel**(**char** c);

**char**(longestWord);

*// generated using http://listofrandomnames.com/*

**char** words[][20] = { "conjointness","factorized","artier","disemboguing","unvigilant","gallonage","favour","hyperparasitic","nondeferable","dacha" };

**int** nwords = 10;

**void** **main**()

{

**char** word[20];

**int** i = 0;

printLongestWord();

i = findWordWithMostVowels();

printf("Word with most vowels is: %s \n", words[i]);

puts("enter word");

gets\_s(word);

**if** (findWord(word))

{

printf("%s is in our list of words\n", word);

}

**else**

{

printf("%s is not in our list of words\n", word);

}

}

**void** **printLongestWord**()

{

**int** maxlent = 0, maxi = 0;

**char** i = 0;

**int** len = 0;

**for** (i = 0; i < 10; i++) {

**if** (strlen(words[i]) > maxlent) {

maxlent = strlen(words[i]);

maxi = i;

}

}

printf("longest word is %s with %d letters", words[maxi], maxlent);

}

**int** **findWord**(**char** word[])

{

**for** (**int** i = 0; i < nwords; i++)

{

**if** (!strcmp(word, words[i])) {

**return** 1;

}

**else**

{

**return** 0;

}

}}

**int** **findWordWithMostVowels**()

{

**int** maxVowels = 0;

**int** maxVowelsWordId;

**for** (**int** i = 0; i < nwords; i++)

{

**int** vowels = 0;

**for** (**int** j = 0; j < strlen(words[i]); j++)

{

**if** (isVowel(words[i][j]))

vowels++;

}

**if** (vowels > maxVowels)

{

maxVowelsWordId = i;

}

}

**return** maxVowelsWordId;

}

**int** **isVowel**(**char** c)

{

c = toupper(c);

**char** vowels[5] = { 'A', 'E', 'I','O','U' };

**for** (**int** i = 0; i < 5; i++)

{

**if** (c = vowels[i])

**return** 1;

**else**

**return** 0;

}

}