Finn Moore

Palindrome Lab

Source:

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Palindrome Lab

i: a word less than an arbitrary # of characters

p:

use strlen to get length of word

copy array in reversed order by using length - index - 1

use strcmp to compare reversed word to forward word

o: output whether string is palindrome

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#include <bits/stdc++.h>

using namespace std;

int main(){

//id

cout << "Finn Moore Palindrome Lab\n";

//declare array

char word[50];

//prompt

cout << "Enter a word < 50 characters: ";

//input word

cin >> word;

//store length in var using strlen

int length = strlen(word);

//declare array to copy word

char revword[length];

//loop through word

for (int i=0;i<length;i++){

//change letter to upper

word[i]=toupper(word[i]);

//store letters in reverse order

revword[length-i-1]=word[i];

}

//strcmp to check if strings are the same

if (strcmp(word, revword)==0){

cout << "Word is a palindrome.";

}

else {

cout << "Word is not a palindrom.";

}

cout << endl;

return 0;

}

Output:

