//

// main.cpp

// cs 161

//

// Created by Jacky on 1/18/15.

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//

#include <iostream>

#include <string>

#include <cmath>

#include <climits>

using namespace std;

void base2(int num){

if (num >= 2)

{ base2(num/2);

cout << num % 2;

}

if (num < 2)

cout << num;

}

int main() {

string strInput1;

cout << "Enter a string of Char: ";

cin >> strInput1;

int num = 0;

int x = 0;

cout << "The ASCII number in binary is: \n";

while (x < strInput1.length()) {

num = (int)strInput1.at(x); //change every Chars to an int num.

base2(num); // get the binary every single time when the x < length of string of Chars.

x++; //x=x+1

}

cout << " " << endl;

cout << "Enter a string of 1s and 0s number: ";

int strInput2;

cin >> strInput2;

int dec = 0;

int last;

int two = 1;

while (strInput2 > 0){

last = strInput2 % 10;

dec = dec +last \* two;

two = two \* 2;

strInput2 = strInput2 / 10;

}

cout << "The ASCII value is: " << static\_cast<char>(dec) << endl;

return 0;

}