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Assignment: HW4.2

This program prompts the user for a word and then prints it out in reverse.

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#include <iostream>

using namespace std;

int main()

{

cout << "Enter a word: " << endl;

/\* Implement this pseudocode:

s = Read user input

r = ""

i = 0

while i < length of s

c = ith character of s

r = c + r

i++

Print r

\*/

string s = ""; //user input

cin >> s;

string c = ""; //instancing variables

string r = "";

int i = 0;

while (i < s.length()) { //reversing

c = s.at(i);

r = c + r;

i++;

}

cout << r << endl; //printing out

return 0;

}

/\*

This program prompts the user for a positive integer and then prints the reverse of it.

\*/

#include <iostream>

using namespace std;

int main()

{

cout << "Enter a positive integer: " << endl; // user input

int n;

cin >> n;

// TODO: Print the digits of n in reverse

int retVal = 0;

int digit = 0;

while (n > 0) // reversing

{

digit = n % 10;

retVal \*= 10;

retVal += digit;

n = n / 10;

}

cout << retVal << endl;

return 0;

}

/\*

This program prompts the user for an integer and then prints the reverse of it.

\*/

#include <iostream>

using namespace std;

int main()

{

cout << "Enter an integer: " << endl; //user input

int n;

cin >> n;

// TODO: Print the digits of n in reverse

int retVal = 0;

int digit = 0;

if (n > 0) { //positive

while (n > 0) // reversing

{

digit = n % 10;

retVal \*= 10;

retVal += digit;

n = n / 10;

}

}

else { //negative

while (n < 0) // reversing

{

digit = n % 10;

retVal \*= 10;

retVal += digit;

n = n / 10;

}

//retVal \*= -1;

}

cout << retVal << endl;

return 0;

}