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Assignment: Homework 4.2, e.g., Lab1C

All the code checks in homework 4.2.

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Q6)

#include <iostream>

#include <string>

using namespace std;

int main()

{

cout << "Enter a word: " << endl; //receive string input

string s = "";

cin >> s;

string r = "";

int i = 0;

while (i < s.length()) //while i is less then string length

{

char c = s.at(i); //get character at index

r = c + r; //concatenate character to string r

i++; //increment index

}

cout <<r; //reverse string

return 0;

}

Q3)

#include <iostream>

using namespace std;

int main()

{

cout << "Enter a positive integer: " << endl;

int n;

cin >> n;

while(n > 0)

{

int digit = n % 10;

n = n / 10;

cout << digit; //reverse positive numbers

}

cout << endl;

return 0;

}

Q4)

#include <iostream>

using namespace std;

int main()

{

cout << "Enter an integer: " << endl; //reverses both positive and negative numbers

int n;

cin >> n;

while(n > 0) //reverse inputted positive number

{

int digit = n % 10;

n = n / 10;

cout << digit;

}

if(n < 0) //reverse inputted negative number

{

cout << "-"; //if negative just concatenate a - sign and reverse the numbers

n = n \* -1;

while(n > 0)

{

int digit = n % 10;

n = n / 10;

cout << digit;

}

}

cout << endl;

return 0; //I coded it so that if the input was -543 it would output -345

}