// =======================

// Included: main.cpp

// =======================

// HW 10

// =======================

// Christian Falucho

// CMPR 121

// =======================

/\*================ CONTENTS FROM main.cpp ===================

#include <iostream>

#include <algorithm>

using namespace std;

int main () {

cout << "The greater of value of 1 and 2 = " << max(1, 2) << endl;

cout << "The greater of value of 2 and 1 = " << max(2, 1) << endl;

cout << "The greater of value of 'a' and 'z' = " << max('a', 'z') << endl;

cout << "The greater of value of 3.14 and 2.72 = " << max(3.14, 2.72) << endl;

return 0;

}

/\*================ CONTENTS FROM main.cpp ===================\*/

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// Included: main.cpp

// =======================

// HW 10b

// =======================

// Christian Falucho

// CMPR 121

// =======================

/\*================ CONTENTS FROM main.cpp ===================

#include <iostream>

#include <vector>

using namespace std;

int main () {

vector<int> values;

values.push\_back(1);

values.push\_back(2);

values.push\_back(4);

values.push\_back(9);

values.push\_back(5);

// Display all values in the vector

for (size\_t i = 0; i < values.size(); i++)

{

cout << values[i] << " ";

}

cout << endl << endl;

// Insert the value 3 in the beginning of the vector

values.insert(values.begin(), 3);

for (size\_t i = 0; i < values.size(); i++)

{

cout << values[i] << " ";

}

cout << endl << endl;

// Remove the value in the beginning of the vector

values.erase(values.begin());

for (size\_t i = 0; i < values.size(); i++)

{

cout << values[i] << " ";

}

cout << endl << endl;

// Remove the value in the end of the vector

values.erase(values.end() - 1);

for (size\_t i = 0; i < values.size(); i++)

{

cout << values[i] << " ";

}

cout << endl << endl;

// Display the value size of the vector

cout << "There are "<< values.size() << " values." << endl;

return 0;

}

/\*================ CONTENTS FROM main.cpp ===================\*/

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// Included: main.cpp

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// HW 10c

// =======================

// Christian Falucho

// CMPR 121

// =======================

/\*================ CONTENTS FROM main.cpp ===================

#include <iostream>

#include <iomanip>

#include <vector>

using namespace std;

int main(){

const int NUM\_EMPLOYEES = 5;

vector<int> hours(NUM\_EMPLOYEES);

vector<double> wage(NUM\_EMPLOYEES);

cout << "Enter hours worked and hourly wage of each employee:\n\n";

for (int i = 0; i < hours.capacity() / 2; i++)

{

int hrValue, wageValue;

cout << "Hours for Employee #" << i + 1 << ": ";

cin >> hrValue;

hours.insert(hours.begin() + i, hrValue);

cout << "Wage for Employee #" << i + 1 << ": ";

cin >> wageValue;

wage.insert(wage.begin() + i, wageValue);

}

for (size\_t i = 0; i < hours.size(); i++)

{

cout << hours[i];

}

// system("cls");

cout << endl;

cout << fixed << setprecision(2);

cout << "Gross pay for each employee:\n\n";

for (int i = 0; i < hours.size() / 2; i++)

{

cout << "Employee #" << i + 1 << setw(10) << "$ " << hours[i] \* wage[i] << endl;

}

cout << "Employee #1 hours = " << hours.front();

cout << endl;

cout << "Employee #5 hours = " << hours.at(4);

return 0;

}

/\*================ CONTENTS FROM main.cpp ===================\*/

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// =======================

// Included: main.cpp

// =======================

// HW 10d

// =======================

// Christian Falucho

// CMPR 121

// =======================

/\*================ CONTENTS FROM main.cpp ===================\*/

#include <iostream>

#include <string>

#include <list>

using namespace std;

int main () {

list<char> characters;

string word;

cout << "Enter a word: ";

getline(cin, word);

cout << endl;

for (int i = 0; i < word[i] != '\0'; i++)

{

characters.push\_back(word[i]);

}

// m o m

// d a d

// r a c e c a r

for (list<char>::iterator it = characters.begin(); it != characters.end(); it++)

{

// if the first character and last character does not equal

// end the loop

int i = 0;

if (characters.front() != characters.back() - i)

{

cout << word << " is not a palindrome.\n";

break;

}

else{

cout << word << " is a palindrome.\n";

break;

}

}

return 0;

}

/\*================ CONTENTS FROM main.cpp ===================\*/

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