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

// Attached: HW\_10a, HW\_10b, HW\_10c

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

// Program: HW\_10a

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

// Programmer: Milo Fisher

// Class: CS 1B

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

#include<iostream>

#include<algorithm>

using namespace std;

int main()

{

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

cout << "\nThe greater value of 2 and 1 = " << max(2,1);

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

cout << "\nThe greater value of 3.14 and 2.72 = " << max(3.14,2.72);

return 0;

}

// ============== OUTPUT ================

/\*

The greater value of 1 and 2 = 2

The greater value of 2 and 1 = 2

The greater value of 'a' and 'z' = z

The greater value of 3.14 and 2.72 = 3.14

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

// Attached: HW\_10a, HW\_10b, HW\_10c

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

// Program: HW\_10b

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

// Programmer: Milo Fisher

// Class: CS 1B

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

#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);

cout << "Vector: ";

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

{

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

}

cout << "\n\n";

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

cout << "Vector: ";

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

{

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

}

cout << "\n\n";

values.erase(values.begin());

cout << "Vector: ";

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

{

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

}

cout << "\n\n";

values.pop\_back();

cout << "Vector: ";

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

{

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

}

cout << "\n\nThere are " << values.size() << " values.";

return 0;

}

// ============== OUTPUT ================

/\*

Vector: 1 2 4 9 5

Vector: 3 1 2 4 9 5

Vector: 1 2 4 9 5

Vector: 1 2 4 9

There are 4 values.

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

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

// Attached: HW\_10a, HW\_10b, HW\_10c

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

// Program: HW\_10c

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

// Programmer: Milo Fisher

// Class: CS 1B

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

#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.size(); i++)

{

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

cin >> hours[i];

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

cin >> wage[i];

cout << endl;

}

for(int i = 0; i < 10; i++)

cout << "\n\n\n\n\n\n\n\n\n\n\n\n\n";

cout << fixed << setprecision(2);

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

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

{

cout << setw(10) << "Employee #" << i+1 << setw(5) << "$" << setw(7) << hours[i] \* wage[i] << endl;

}

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

cout << "\nEmployee #5 hours = " << hours.back();

return 0;

}

// ============== OUTPUT ================

/\*

Gross pay for each employee:

Employee #1 $ 600.00

Employee #2 $ 960.00

Employee #3 $1050.00

Employee #4 $1105.00

Employee #5 $1800.00

Employee #1 hours = 60

Employee #5 hours = 100

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