```
Cabrera_Pablo_Cop1334C_Hw1
```

Chapter 02

Duplicate figures:

• **2.1**

```
// A simple C++ program
#include <iostream>
using namespace std;
int main()
{
   cout << "Programming is great fun!";</pre>
   return 0;
                                                                                                                             "C:\Users\pablo\Desktop\c++ class\COP1334 c++\bin\Debug\COP1334 c++.exe"
 Programming is great fun!
Process returned 0 (0x0) execution time : 0.028 s
Press any key to continue.
```

• 2.3

```
// A simple C++ program
#include <iostream>
using namespace std;
```

```
int main()
   cout << "Programming is ";</pre>
   cout << "great fun!";</pre>
   return 0;
 ■ "C:\Users\pablo\Desktop\c++ class\COP1334 c++\bin\Debug\COP1334 c++.exe"
                                                                                                                      \times
Programming is great fun!
Process returned 0 (0x0) execution time : 0.027 s
Press any key to continue.
     • 2.4
// An unruly printing program
#include <iostream>
using namespace std;
int main()
   cout << "The following items were top sellers";</pre>
   cout << "during the month of June";</pre>
   cout << "Computer games";</pre>
```

```
cout << "Coffee";</pre>
   cout << "Aspirin";</pre>
   return 0;
                                                                                                                      "C:\Users\pablo\Desktop\c++ class\COP1334 c++\bin\Debug\COP1334 c++.exe"
The following items were top sellersduring the month of JuneComputer gamesCoffeeAspirin
Process returned 0 (0x0) execution time : 0.027 s
Press any key to continue.
     2.5
// An unruly printing program
#include <iostream>
using namespace std;
int main()
{
   cout << "The following items were top sellers" << endl;</pre>
   cout << "during the month of June" << endl;</pre>
   cout << "Computer games" << endl;</pre>
   cout << "Coffee" << endl;</pre>
   cout << "Aspirin" << endl;</pre>
   return 0;
```

```
}
```

```
The following items were top sellers
during the month of June
Computer games
Coffee
Aspirin

Process returned 0 (0x0) execution time: 0.029 s
Press any key to continue.

✓
```

• 2.7

```
// This program has a variable
#include <iostream>
using namespace std;

int main()
{
    int number;

    number = 5;
    cout << "The value of the number is " << number << endl;
    return 0;
}</pre>
```

```
"CAUsers/pablo/Desktop\c++ class\COP1334c++\bin\Debug\COP1334c++.exe" — X

The value of the number is 5

Process returned 0 (0x0) execution time: 0.012 s

Press any key to continue.
```

• 2.13

```
// This program demonstrates the close relationship between
// characters and integers
#include <iostream>
using namespace std;

int main()
{
    char letter;

    letter = 65;
    cout << letter << endl;
    letter = 66;
    cout << letter << endl;
    return 0;
}</pre>
```

```
"C:\Users\pablo\Desktop\c++ class\COP1334 c++\bin\Debug\COP1334 c++.exe" — X

A

B

Process returned 0 (0x0) execution time: 0.014 s

Press any key to continue.
```

Solve problems:

return 0;

}

2.9

```
#include <iostream>
using namespace std;
int main()
{
   cout << endl;
   cout << "A char uses " << sizeof(char) << " byte." << endl;
   cout << "An int uses " << sizeof(int) << " bytes. " << endl;
   cout << "A float uses " << sizeof(float) << " bytes. " << endl;
   cout << "A double uses " << sizeof(double) << " bytes. " << endl;
   cout << "A double uses " << sizeof(double) << " bytes. " << endl;
   cout << endl;</pre>
```

```
"C:\Users\pablo\Desktop\c++ class\COP1334 c++\main.exe"
A char uses 1 byte.
An int uses 4 bytes.
A float uses 4 bytes.
A double uses 8 bytes.
Process returned 0 (0x0) execution time : 0.032 s
Press any key to continue.
2.12
#include <iostream>
using namespace std;
int main()
{
  double acre, land, totalLand;
  acre = 43560;
  land = 391876;
  totalLand = land / acre;
  cout << "Your land has this many acres: " << totalLand << "." << endl;</pre>
  return 0;
}
 "C:\Users\pablo\Desktop\c++ class\COP1334 c++\main.exe"
Your land has this many acres: 8.99624.
Process returned 0 (0x0) execution time: 0.026 s
Press any key to continue.
```

```
This is 2.13
// $14.95 the company makes 35% profit.
#include <iostream>
using namespace std;
int main()
{
  cout << "Your profit for the circuit board is: $" << 14.95 * 0.35 << endl;
  return 0;
}
 "C:\Users\pablo\Desktop\c++ class\COP1334 c++\main.exe"
Your profit for the circuit board is: $5.2325
Process returned 0 (0x0) execution time : 0.027 s
Press any key to continue.
2.15
#include <iostream>
using namespace std;
int main()
  cout << " * " << endl;
  cout << '' *** '' << endl;
  cout << '' ***** '' << endl;
  cout << ''******'' << endl;
  return 0;
}
```

```
"C:\Users\pablo\Desktop\c++ class\COP1334 c++\bin\Debug\COP1334 c++.exe"
  ****
 Process returned 0 (0x0) execution time : 0.071 s
 Press any key to continue.
2.17
#include <iostream>
using namespace std;
int main()
  double stock = 750 * 35;
  double commission = stock * 2 / 100;
  double total = stock + commission;
  cout << "The stock amount is: " << stock << ", The commission paid is: " <<
commission << ", so the total amount is: " << total << endl;
  return 0;
}
 ■ "C:\Users\pablo\Desktop\c++ class\COP1334 c++\bin\Debug\COP1334 c++.exe"
The stock amount is: 26250, The commission paid is: 525, so the total amount is: 26775
Process returned 0 (0x0)
                            execution time : 0.029 s
Press any key to continue.
problem 2.19
#include <iostream>
using namespace std;
int main()
```

```
double NYC, Denver, Phoenix;

NYC = 85;

Denver = 88;

Phoenix = 106;

cout << "New York city new average is: " << (NYC*1.02+NYC)/2 << endl;
cout << "Denver new average is: " << (Denver*1.02+Denver)/2 << endl;
cout << "Phoenix new average is: " << (Phoenix*1.02+Phoenix)/2 << endl;
return 0;
}

"C:\Users\pablo\Desktop\c++ class\COP1334 c++\bin\Debug\COP1334 c++.exe"

New York city new average is: 85.85

Denver new average is: 88.88

Phoenix new average is: 107.06

Process returned 0 (0x0) execution time: 0.027 s

Press any key to continue.
```