65 % 60 = 5

Name:

Date:

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127 % 60 = 7

Problem 1.e. *Identify the error in the code below, and write the correct line.*

```
#include <iostream>
using namespace;

int main()
{
        cout << "Hello, World!" <<endl;
}
```

<< endl;

2 Converting Seconds to Days:Hours:Minutes:Seconds

A day has 86,400 seconds ($24 \times 60 \times 60$). Given a number of seconds in the range of 0 to 1,000,000 seconds, your program should print the time as days, hours, minutes, and seconds for a 24 hour clock. For example, 70,000 seconds is 0 days, 19 hours, 26 minutes, and 40 seconds. Your program should accept user input for the number of seconds to convert and then use that number in your calculations. Format your output as follows:

`The time is W days, X hours, Y minutes, and Z seconds.`

Problem 2.a. *Explicitly list the variables you will need and their data types.*

int seconds, days, hours, minutes

Problem 2.b. *What arithmetic operators will be most useful for this problem?*

% -

Problem 2.c. *Write out the steps you would use to solve this problem by hand as pseudocode.*

Get input of seconds in seconds

↓

While seconds ≥ 86 400

get rid of 86400 s

days + 1

While seconds > 3600

- 3600

hours + 1

While seconds > 60

- 60

minutes + 1

Print amounts

Problem 2.d. *Pick a random number between 0 and 1,000,000 for a sample run. Follow the steps you wrote from part c for this number to find your end result, and verify it.*

1000 000 gives 11 days 13 hours 46 min 40 s

Problem 2.e. *Translate your pseudocode into a c++ program to solve the above code.*

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Please make sure to write your name and the date in the top left corner. You may use any course materials to answer the following questions and you may collaborate with others, but the work shown must be your own.

1 Spot The Error

Problem 1.a. *Identify the error in the code below, and write the correct line.*

```
#include <iostream>
using namespace std;

int Main()
{
        cout << "Hello, World!" << endl;
        return 0;
}
```

int main()

Problem 1.b. *Identify the error in the code below, and write the correct line.*

```
#include <iostream>
using namespace std;

int main
{
        cout << "Hello, World!" << endl;
        return 0;
}
```

int main()

Problem 1.c. *Identify the error in the code below, and write the correct line.*

```
#include <iostream>
using namespace std;

int main()
{
        cout << "Hello, World!" << endl;
        return 0;
}
```

"Hello, World!"

Problem 1.d. *Identify the error in the code below, and write the correct line.*

```
#include <IOstream>
using namespace std;

int main()
{
        cout << "Hello, World!" << endl;
        return 0;
}
```

eldl;