C++ Programming Division and Modulus Homework 2

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Problem #1: Is even?

- The following code reads an integer and computes a boolean if the number is even *in 3 different ways*.
- Fill in the is_even to solve the problem in 3 ways as following
- Using only %2
- Using only /2
- Using only %10

```
4 int main() {
        int num;
        cin >> num;
8
9
10
11
12
        // Is even using %2
        bool is even1 = ?;
        // is even using /2
        bool is even2 = ?;
        // is even using %10
        bool is even3 = ?;
        return 0;
18 }
19
```

Problem #2: Last 3 digits sum

- Write a program that reads an integer and prints the sum of its last 3 digits.
- Inputs ⇒ Outputs examples

```
○ 15 ⇒ 6
```

- 125 ⇒ 8
- 1000 ⇒ 0
- 1001 ⇒ 1
- 99999 ⇒ 27

Problem #3: 4th digits from the end

- Write a program that reads an integer and print the 4th from the right side. If no such digit, print 0
- Inputs => outputs

```
o 15 => 0
```

"Acquire knowledge and impart it to the people."

"Seek knowledge from the Cradle to the Grave."