COMP 110

CL01 - Conditionals and Evaluating Expressions

Housekeeping - CQ00

- CQ00: Check/Update Canvas Email
- **<u>DUE THURSDAY</u>**
- *IF YOU DIDN'T GET AN EMAIL TO JOIN GRADESCOPE* you probably will have to change your email in Canvas
- IF YOU DID GET THE EMAIL, you'll just have to check a few boxes. :)

Simplify: 2 + 4 / 2 * 2

(Reminder: P E M D A S)

Simplify: 2 + 4 / 2 * 2

What type is 2 + 4 / 2 * 2?

Simplify:
220 >= int(("1" + "1" + "0") * 2)

Mods Practice! Simplify

- 7 % 2

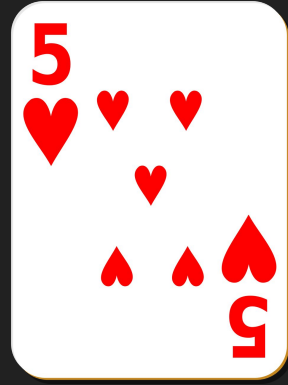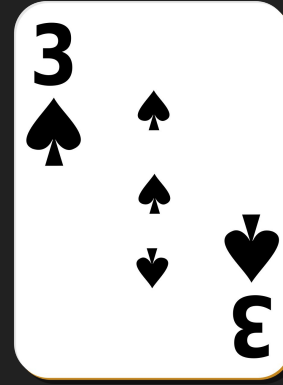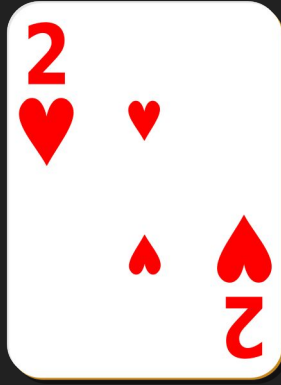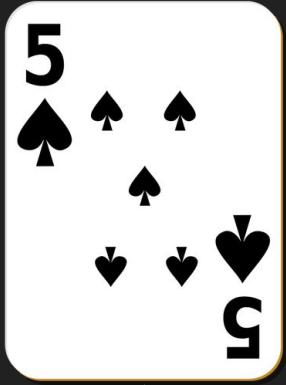- 8 % 4

- 7 % 4

- Any even number % 2
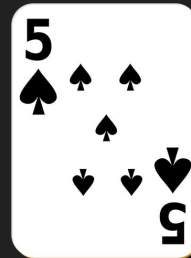
- Any odd number % 2

Takeaways

- Ordering of simplifying expressions
- How types can change when simplifying expressions
- Learning the new "mod" (%) operator
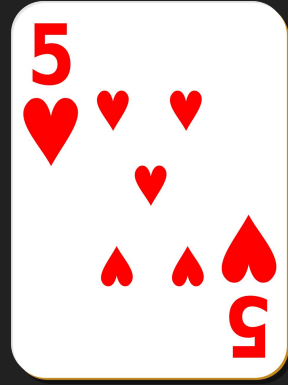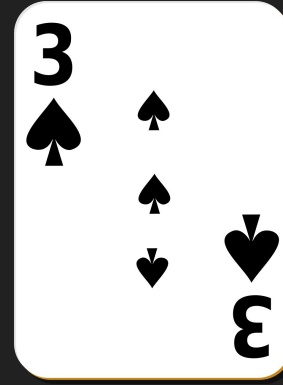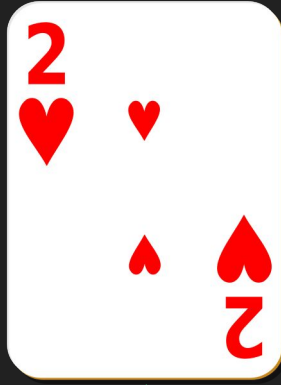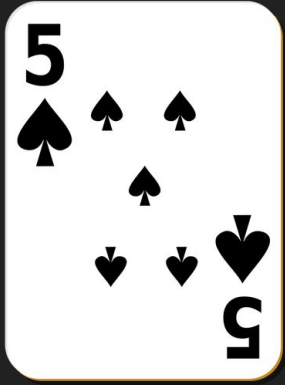
Conditionals
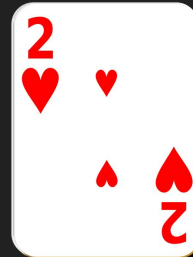
Recall: Finding the Lowest Card

Low card:

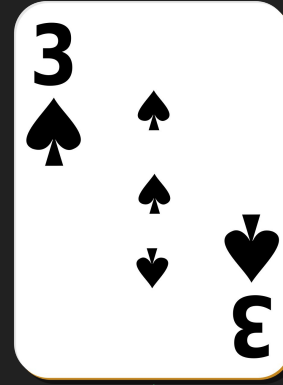If current card < low card, make it the low card.

Recall: Finding the Lowest Card

2 < 5? ✓

Low card:

If current card < low card, make it the low card.

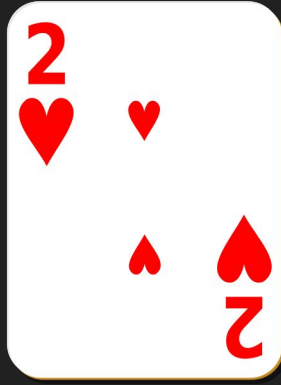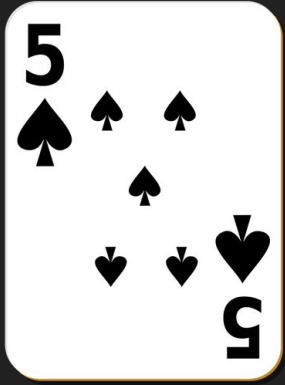# Recall: Finding the Lowest Card
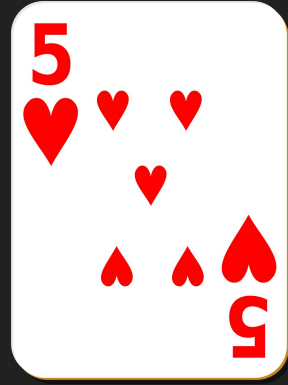
3 < 2? ✗

Low card:

If current card < low card,
make it the low card.
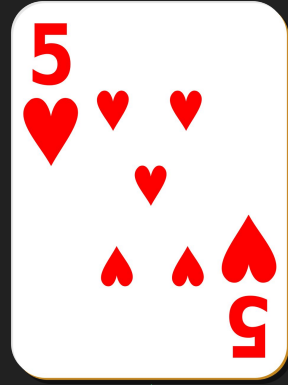
Recall: Finding the Lowest Card

5 < 2? ❌

Low card:
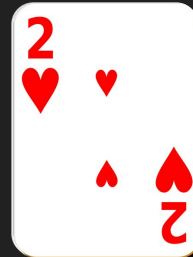
If current card < low card, make it the low card.
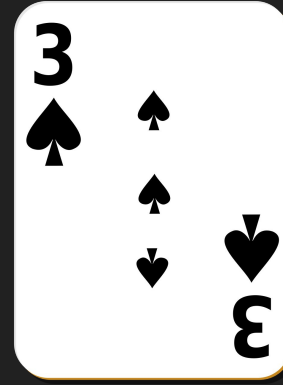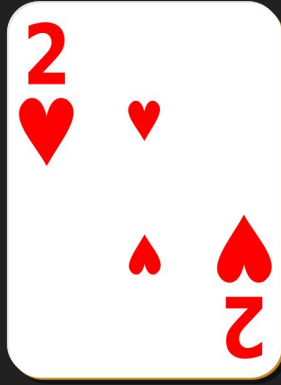
Recall: Finding the Lowest Card

5 < 2? ❌
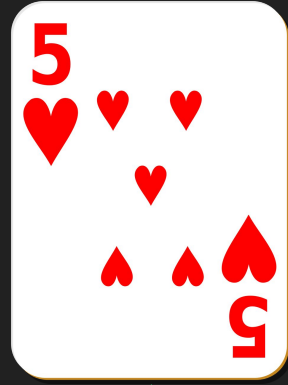
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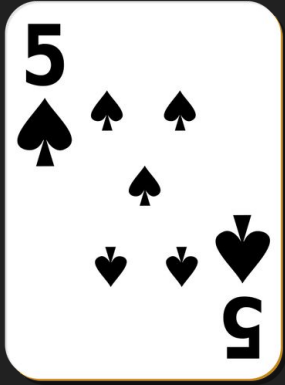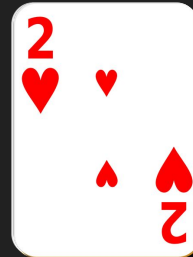
Recall: Finding the Lowest Card
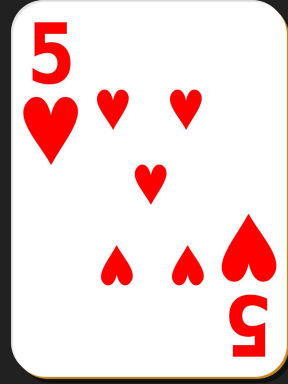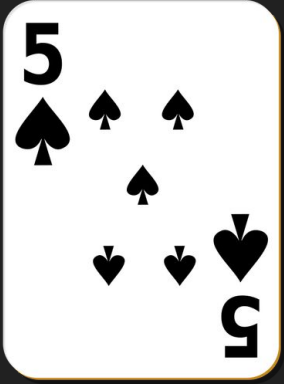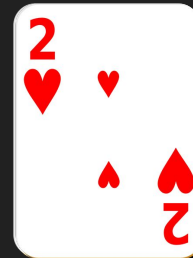
Low card:

Conditional Statement

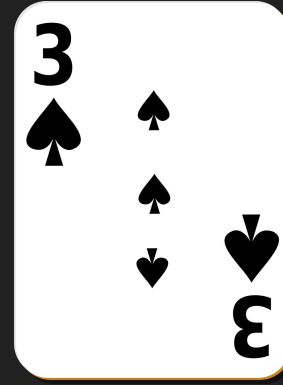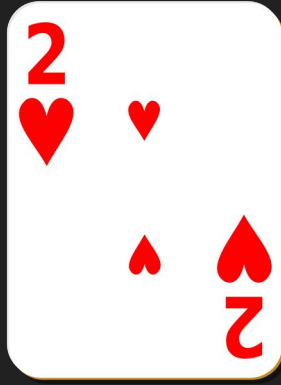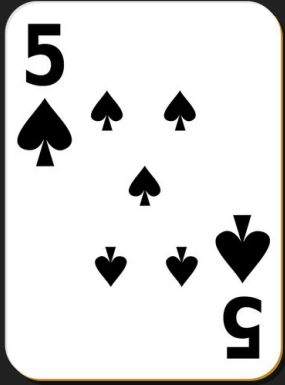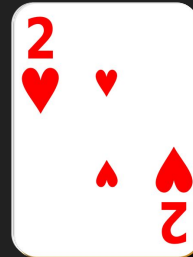If current card < low card, make it the low card.

Conditional Statements

bool

if <something>:

    <do something>

<rest of program>

True

False

Conditional Statements

if <something>:

    <do something>

else:

    <do something else>

<rest of program>

True   False

Conditional Statements
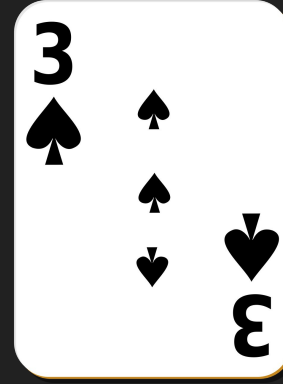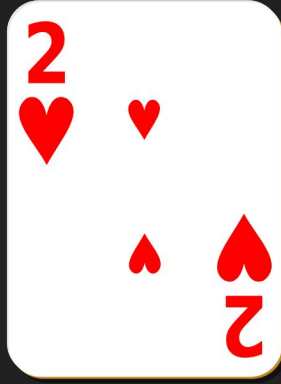
if <something>:

    ■ <do something>

else:

    ■ <do something else>

<rest of program>
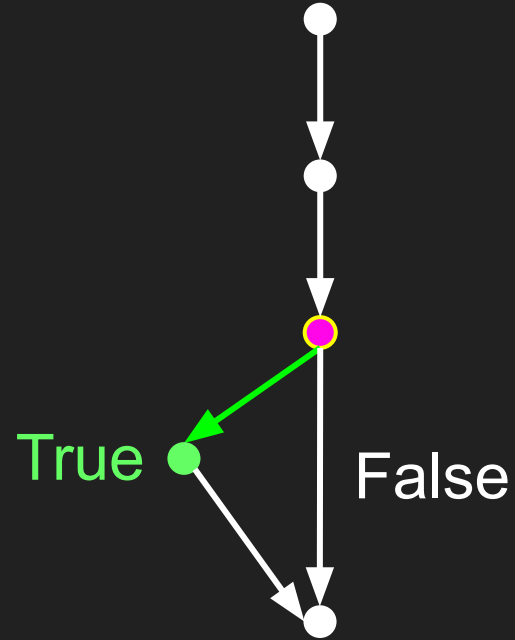
True   False

Discussion

What is a decision you make in your day-to-day that you can express as an conditional (if-else) statement?

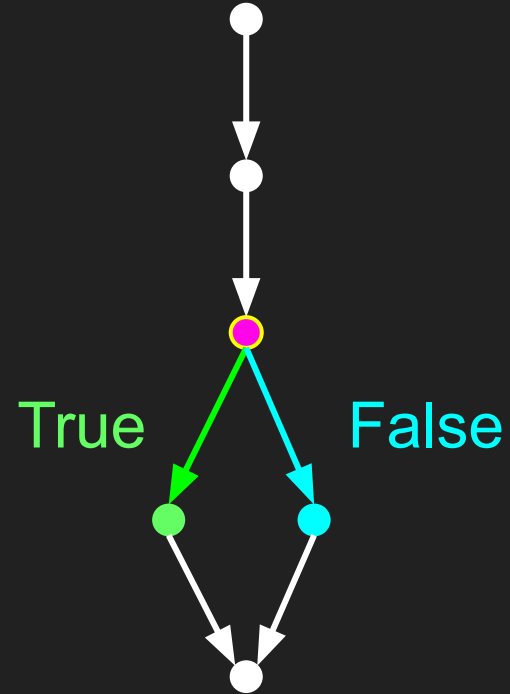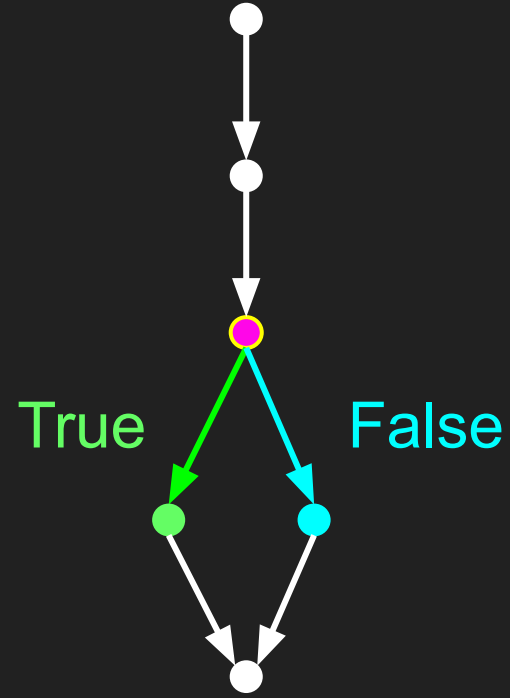E.g. If I my assignment is due tomorrow, I start working on it. Else (it's not due tomorrow), I procrastinate another day.
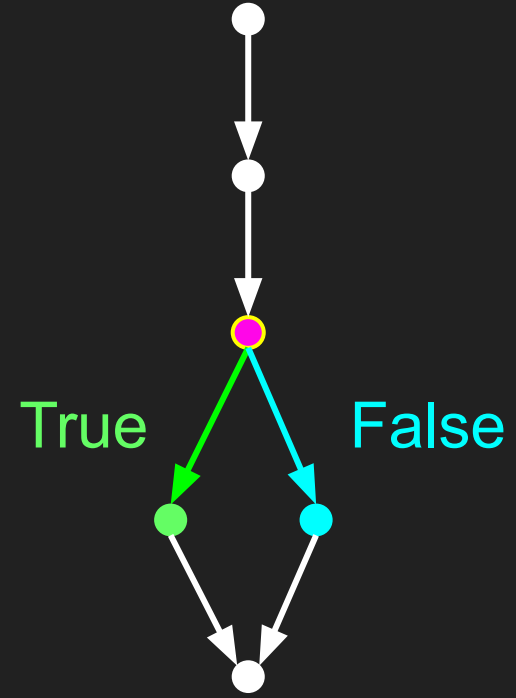*(This is bad behavior and I don't condone it!)*

Conditional Statements

if   :

    ⬜

else:

    ⬜

True   False

Practice

Write a program that prints "Even" if my_number is even and "Odd" if my_number is odd.

(Hint: You will want to use % and the relational operator == from LS03)

```python
1  my_number_string: str = input("Guess a number: ")
2  my_number: int = int(my_number_string)
3
4
5
6
```