COMP
110

# CL02 - Conditionals and Evaluating Expressions

# 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:

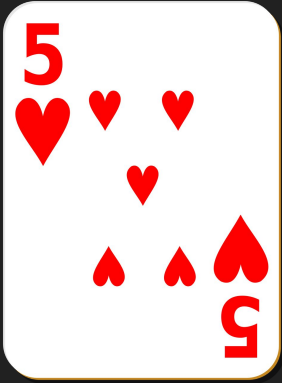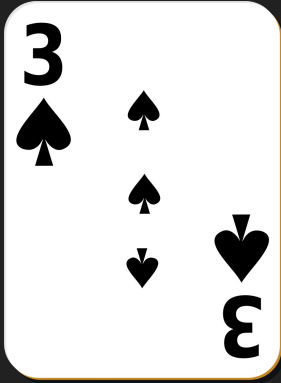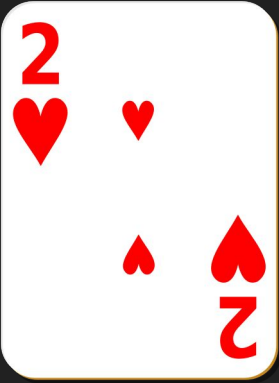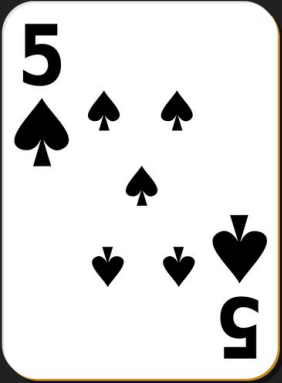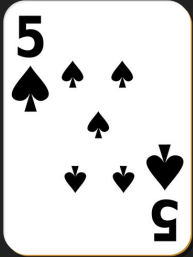$$220 >= \text{int}((\text{"1"} + \text{"1"} + \text{"0"}) * 2)$$

# Takeaways

- Ordering of simplifying expressions
- How types can change when simplifying expressions
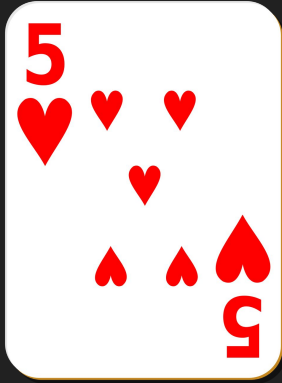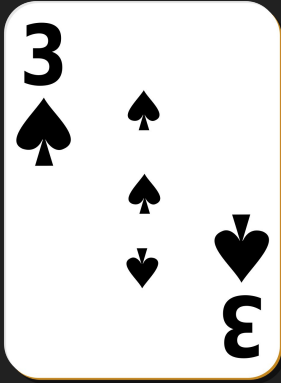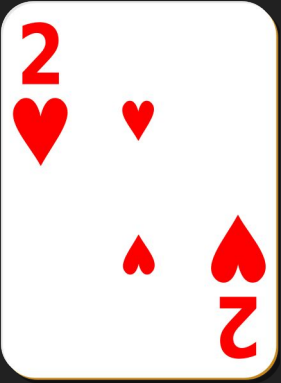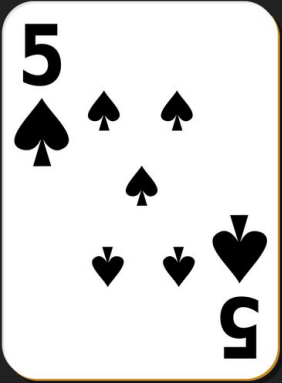
# Conditionals

# 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.

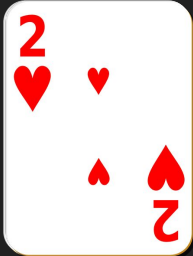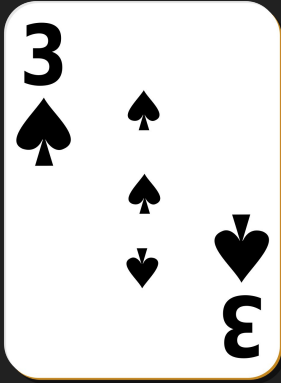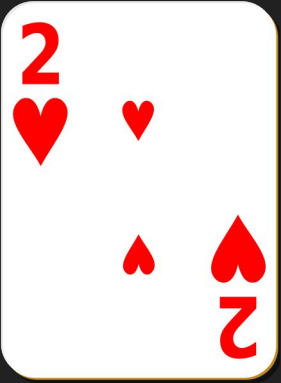# Recall: Finding the Lowest Card
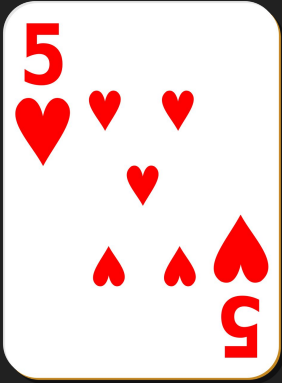


3 < 2? ❌

Low card:

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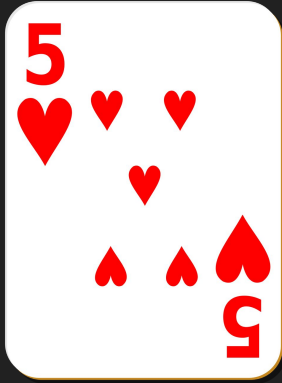
# Recall: Finding the Lowest Card



5 < 2? ❌

Low card:

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

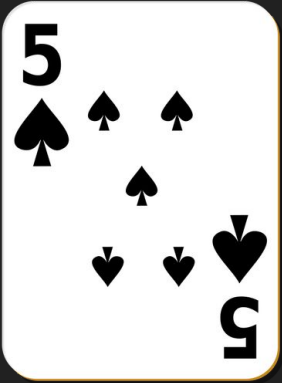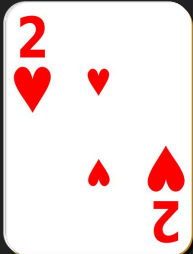# Recall: Finding the Lowest Card



5 < 2? ❌
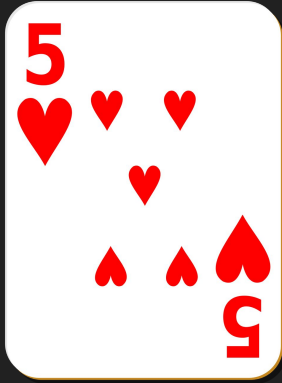
Low card:

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

# Recall: Finding the Lowest Card
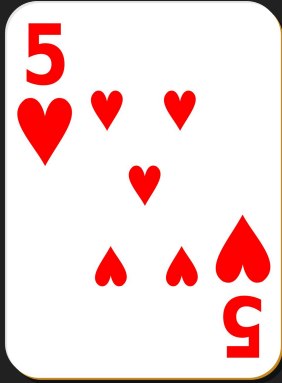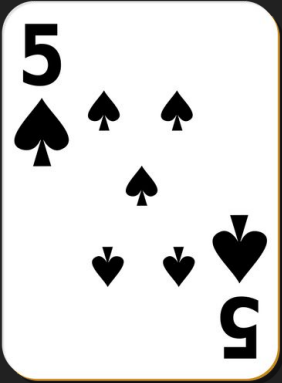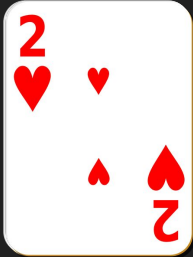
**Low card:**

**Conditional Statement**

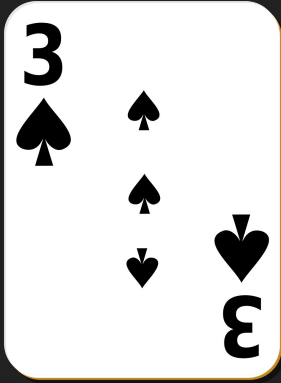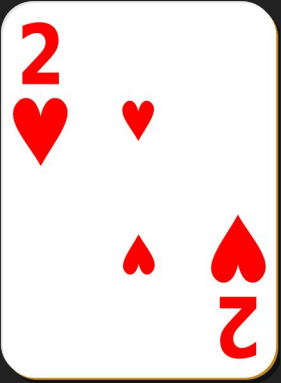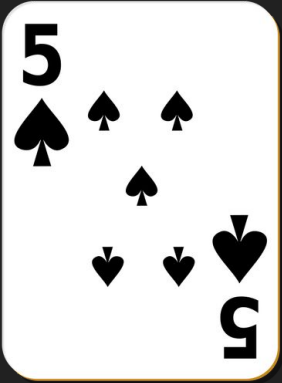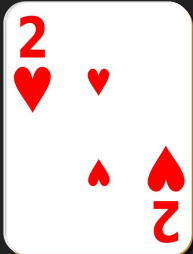If current card < low card,
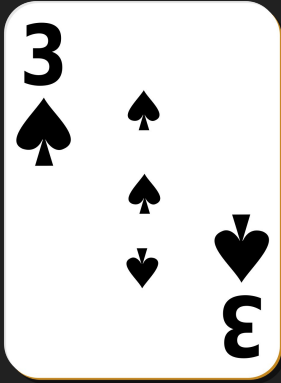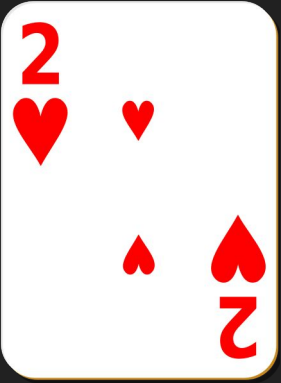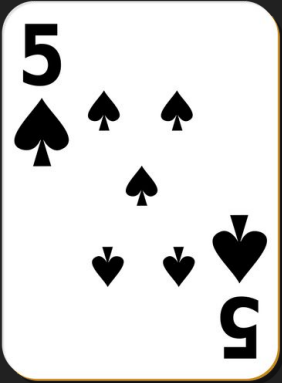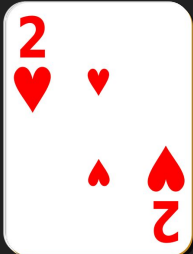make it the low card.

# Conditional Statements

if <something>:       bool

           <do something>

# Conditional Statements

if <something>:

    <do something>

else:

    <do something else>

# Conditional Statements

if <something>:

    <do something>

else:

    <do something else>

True      False

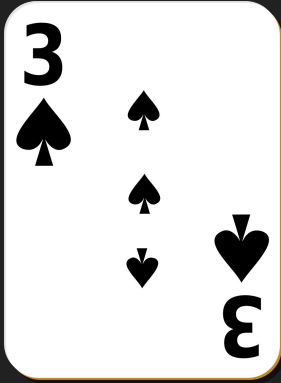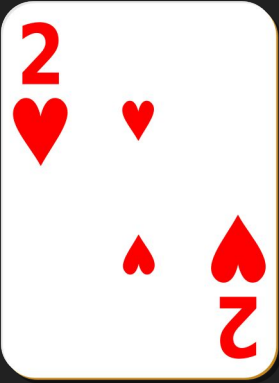# Conditional Statements

if <something>:

⬜ <do something>

else:

⬜ <do something else>

True          False

# Discussion

What is a decision you make in your day-to-day that you can express as an conditional (if-else) statement?
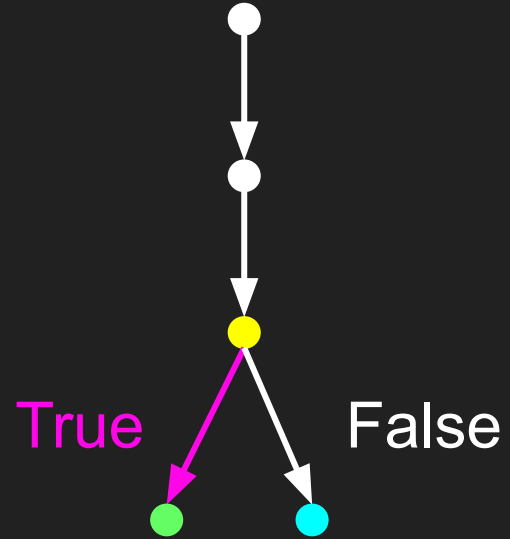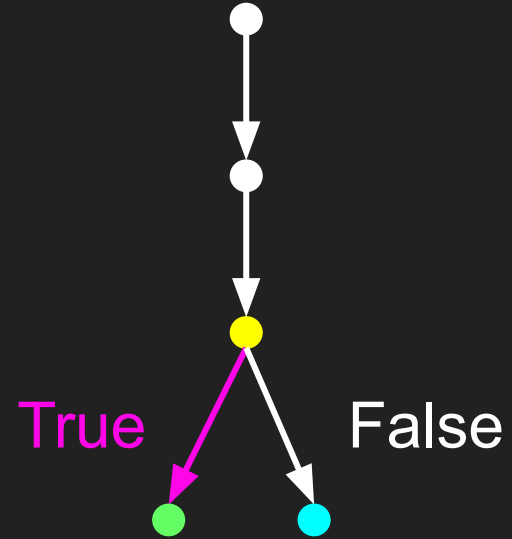
E.g. If I my assignment is due tomorrow, I start working on it. Else (it's not due tomorrow), I procrastinate another day.
*(This is bad behavior and I don't condone it!)*

# Conditional Statements

if <something>:

    <do something>

else:

    <do something else>

<more stuff outside of conditional>

True    False