Conditionals

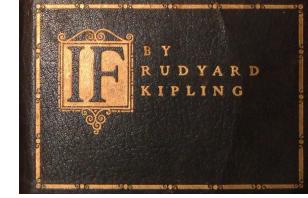
Conditional Pseudocode

If <statement>

← Tab → /* Code that occurs if the statement is true */

Else

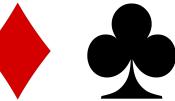
← Tab → /*Code that occurs if the statement is false */



Pseudocode Review

- Identify inputs, outputs, and assumptions
- 2. Define and set variables (denoted by < >)
- 3. Write general code (can be understood by a human, but can be easily translated into C code)





1 🔷



Inputs: One variable will be defined as red (r) or black (b)



Assumptions: The cards used will only be red or black



Variable Initialization

$$<$$
card $> = 'r'$

















Display "The window score is <window_score>"

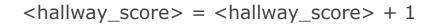
Display "The hallway score is <hallway_score>"





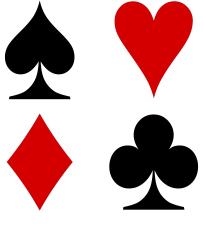


Else



Display "The window score is <window_score>"

Display "The hallway score is <hallway_score>"



Relational Operators

- "Equals" \rightarrow ==
- "Does not equal" \rightarrow !=
- "Less than" \rightarrow <
- "Greater than" \rightarrow >
- "Greater than or equal to" \rightarrow =>
- "Less than or equal to" \rightarrow <=

If/Else statement coding - C

All code within the if statement is indented and within curly braces

```
If (statement) {
    /*Code goes here*/
} else {
    /*More code goes here*/
}
```

The else statement (if present) is joined to the if statement

SCANNING IN VARIABLES

Use scanf() to scan in a variable from the user

Three parts:

- scanf
- 2. (<variable sign>,

- \rightarrow scans a variable from the user
- → takes in a specific type of variable (int: %d;

Float: %f; char: %c)

3. &<variable_name>);

→ The name of the variable being scanned, WITH

AN AMPERSAND IN FRONT

SCANNING IN VARIABLES

return 0;

```
#include <stdio.h>
int main(void) {
                                     /*Initalizes a variable*/
    int month;
                                     /*Scans in a number from the
    scanf("Enter a number: %d",
                                     user*/
&month);
                                     /*Prints out that number*/
    printf("The month is: %d\n");
```

scanf/if Practice

2 Parts:

- 1. Scan a variable into a variable named <month>, and print it out
- 3. Value-check <month> using if statements
 - a. <month> only be between 1-12 (inclusive)
 - b. If it is, print out the number of the month
 - c. If it is not, print out the error message, "This month does not exist"
- 4. Write this in a file called *month.c* and submit to Github

Card Game V2

Hallway side gets a point if card value is greater than 10, or if card value is less than 4

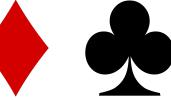
Window side gets a point otherwise





$$<$$
card $>$ = 10







If card greater than 10

Else if card less than 4

Else



If/Else If/Else statement coding - C

```
If <statement> {
   /*Code goes here*/
} else if <statement>{
   /*More code goes here*/
} else {
   /*More code*/
```