Conditionals

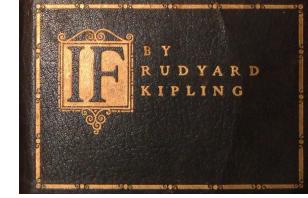
Conditional Pseudocode

If <statement>

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

Else

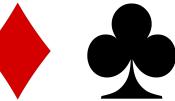
← Tab → /*Code that occurs if the statement is false */



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)





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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>"

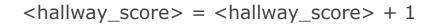
Display "The hallway score is <hallway_score>"





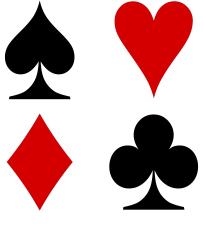


Else



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

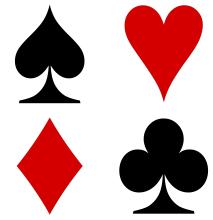
```
If <statement> {
    /*Code goes here*/
} else
    /*More code goes here*/
}
```

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

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*/
```