

If/Else Practice

Friday, September 25, 2020 2:48 PM

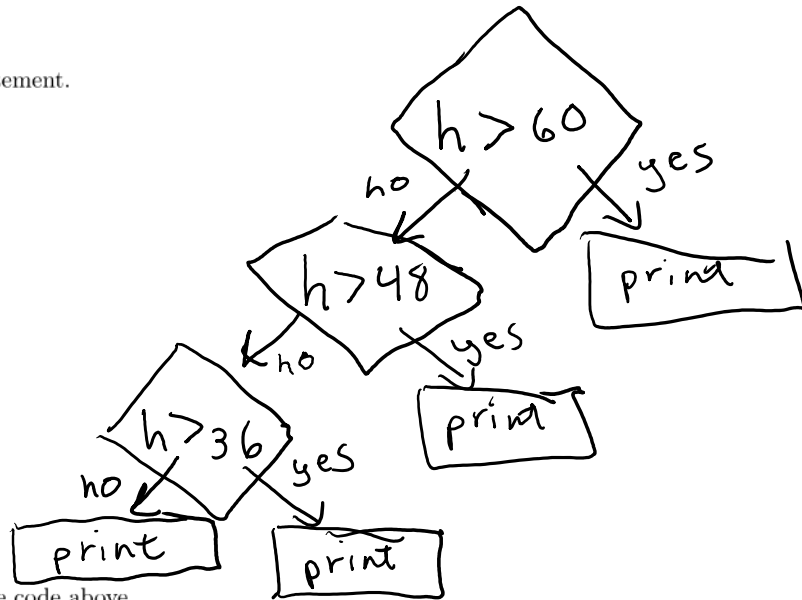
Your Name:

Class practice: Week of September 21, 2020

Due by midnight on your class day.

Question 1. Consider the following conditional statement.

```
void setup() {
  → if (h > 60) {
    println("Taller than 5 ft");
  }
  → else if (h > 48) {
    println("Taller than 4 ft");
  }
  else if (h > 36) {
    println("Taller than 3 ft");
  }
  else {
    println("Too small for this ride");
  }
}
```



- (a). Draw the decision diagram corresponding to the code above.
- (b). What is printed when h is 12? *Too small for this ride*

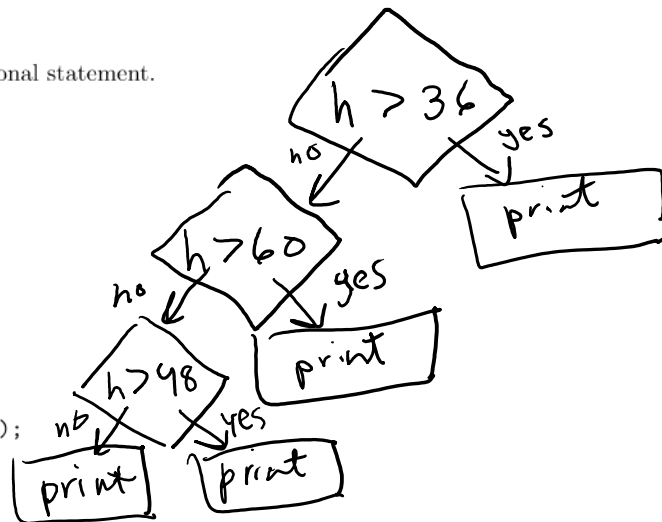
(c). What is printed when h is 43? *Taller than 3 ft*

(d) *h = 48? Taller than 3 ft*

Question 2. Consider the following conditional statement.

```
void setup() {
  if (h > 36) {
    println("Taller than 3 ft");
  }
  else if (h > 60) {
    println("Taller than 5 ft");
  }
  else if (h > 48) {
    println("Taller than 4 ft");
  }
  else {
    println("Too small for this ride");
  }
}
```

never called



- (a). Draw the decision diagram corresponding to the code above.
- (b). What is printed when h is 12? *Too small for this ride*

(c). What is printed when h is 43? *Taller than 3 ft*

(d) *h = 70 → Taller than 3 ft*

Question 3. The primary colors are red, blue and yellow. Suppose we have a String variable which stores a color name, such as "red", "purple", or "chartreuse". Write an if statement to check if the color is primary. Below is sample output from your program.

```
green is not primary
```

```
red is primary
```

```
Blue is not primary
```

```
String colorName = "red"; // define name variable
```

```
void setup() {
```

```
  // Your code here
```

```
  if (colorName == "red" || colorName == "blue" || colorName == "yellow") {
```

```
    println(colorName + " is primary");
```

```
  }
```

```
  else {
```

```
    println(colorName + " is not primary");
```

```
  }
```

```
}
```