

Example 1

With a partner, determine the result of the following:

```
boolean button = false;

int x = 50;

int y = 50;

int w = 100;

int h = 75;


void setup() {
    size(200,200);
}


void draw() {
    if (mouseX > x && mouseX < x+w && mouseY > y && mouseY < y+h && mouseIsPressed) {
        button = true;
    } else {
        button = false;
    }
    if (button) {
        background(255);
        stroke(0);
    } else {
        background(0);
        stroke(255);
    }
    fill(175);
    rect(x,y,w,h);
}
```

Example 2

```
boolean button = false;

int x = 50;
int y = 50;
int w = 100;
int h = 75;

void setup() {
    size(200,200);
}

void draw() {
    if (button) {
        background(255);
        stroke(0);
    } else {
        background(0);
        stroke(255);
    }
    fill(175);
    rect(x,y,w,h);
}

void mousePressed() {
    if (mouseX > x && mouseX < x+w && mouseY > y && mouseY < y+h) {
        button = !button;
    }
}
```