

1. Choose **the most appropriate** value for the **float** data type (1 point)

- a. float myfloat = "hello world";
- b. float myfloat = true;
- c. float myfloat = 432.324;
- d. float myfloat = 'm';
- e. float myfloat = 60;

2. What are the console outputs of the following code examples? (3 points)

```
int x = 4;
if (x >= 8) {
    println(true);
} else {
    println(false);
}
```

- true
 - false
-

```
int x = 4;
if (x == 44) {
    println(true);
} else {
    println(false);
}
```

- true
 - false
-

```
int x = 4;
if (x <= 5 && x >= 2 ) {
    println(true);
} else {
    println(false);
}
```

- true
 - false
-

3. Select the correct console output for the following program (1 point)

```
char letter = 'D';
String outputString;

switch(letter) {
    case 'A':
        outputString = "Alpha";
        break;
    case 'B':
        outputString = "Bravo";
        break;
    case 'C':
        outputString = "Charlie";
        break;
    default:
        outputString = "None";
        break;
}

println(outputString);
```

-
- a. Alpha
 - b. Bravo
 - c. Charlie
 - d. Delta
 - e. None
 - f. Error

PART 2: Drawing

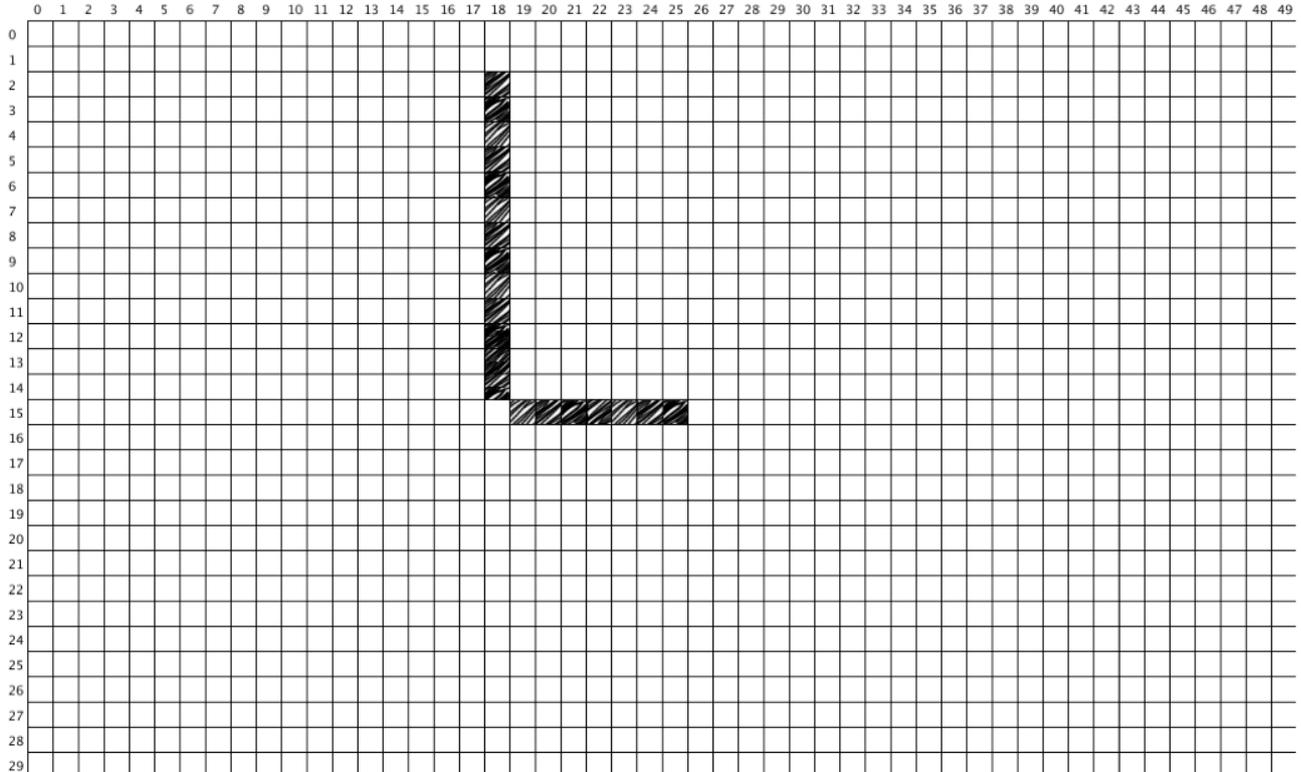
The following questions require you to carefully read the code examples, and draw the visual output in the grid provided. Each cell on the grid represents one pixel.

Note: The `point()` function accepts an `(x, y)` value and draws one pixel at the given coordinate on the display.

EXAMPLE QUESTION

```
void setup() {  
    size (50, 30);  
};  
  
void draw() {  
    for (int i = 2; i < 15; i++) {  
        point(18, i);  
    }  
    for (int i = 19; i <= 25; i++) {  
        point(i, 15);  
    }  
}
```

Output



4. Read through the following program and draw the output on the grid below. (4 points)

```
void setup() {  
    size (50, 30);  
};  
  
void draw() {  
    doublePoint(5,20);  
    doublePoint(40,5);  
}  
  
void doublePoint(int x, int y) {  
    point(x, y);  
    point(x, y+2);  
}
```

Output

