On and Off the Bus

Conditional vs. Counter Loops

The following statement is:

num++

posttest ←———————→ postfix

postfix

What word do we use to say a loop is being stepped through?
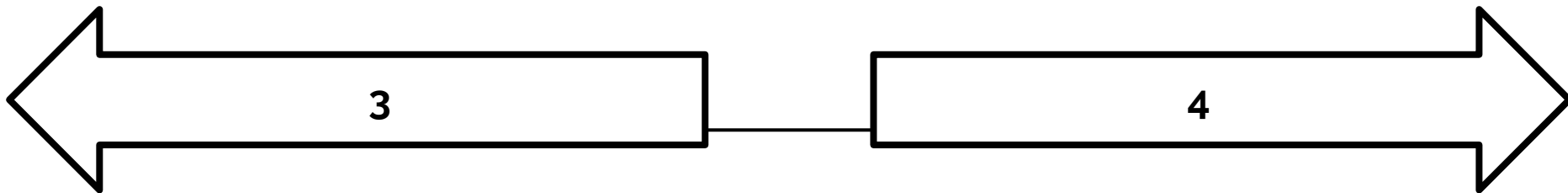
iterating

evaluating

Iterating

What will the following snippet output?

```
int num = 3;

cout << num++;
```

3 ⟵

4 ⟶

3

Is a do-while loop a counting loop?

Yeeeeuuuuh

Naaaaaa

Nope! Which loops are conditional?

What will be the output of the following snippet?

```
int count = 10;
do
{
cout << "Hello World\n";
count++;
} while (count < 1);
```

Nothing

Hello World will display once

Hello World will display once

Name the first expression that appears inside the parentheses in the for-loop's header.

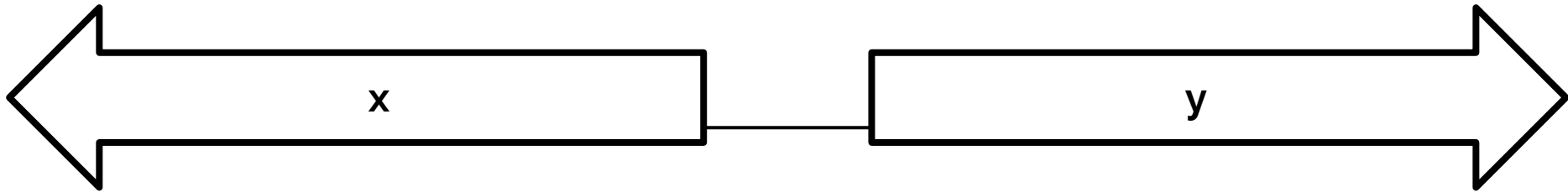Initialization

Test

Initialization

In the following snippet, which is the counter variable?

```
int a, x, y = 0;
for (x = 0; x < 10; x++)
{
    cout << "Enter a number: ";
    cin >> a;
    y += a;
}
cout << "The sum of those numbers is " << y << endl;
```

x   y

X

Are you ready for a challenge?

Modify the snippet to the right so that it accepts any negative value as a sentinel.

```cpp
while (points != -1)
{
    total += points;
    game++;

    cout << "Enter the
        << "points for game "
        << game << ": ";

    cin >> points;
}

___
```

```
while (points >= 0)
{
    total += points;
    game++;

    cout << "Enter the
        << "points for game "
        << game << ": ";

    cin >> points;
}
```

Write a for loop that displays every fifth number zero through 100

```cpp
for (int count = 0; count <= 100; count += 5)
    cout << count << endl;
```