

```
[[questions]]
id = "17a48401-18af-42d3-bc5a-c9fe9d87815e"
type = "Tracing"
prompt.program = """
fn main() {
  let x = 1;
  let y = if x { 0 } else { 1 };
  println!("{}", y);
}
"""
```

```
answer.doesCompile = false
answer.lineNumber = 3
context = """
The condition to an if-expression must be a boolean. Cairo does not have a concept of
"truthy" or "falsy" values.
"""
```

```
[[questions]]
id = "2b4f0ad1-ccb2-4854-a8de-9b5067b8a3f1"
type = "MultipleChoice"
prompt.prompt = """
What happens in Cairo if an if condition evaluates to true?
1. The program skips the if block and executes the next block of code.
2. The program executes the block of code associated with the if condition.
3. The program terminates immediately.
"""
```

```
answer.answer = "2"
prompt.distractors = [ "1", "3", "1 and 3" ]
context = """
When an if condition in Cairo evaluates to true, the program executes the block of code
associated with that if condition.
"""
```

```
[[questions]]
id = "1abbb637-f4cc-42d2-8a02-c85c1002096a"
type = "MultipleChoice"
prompt.prompt = """
What is the result of running a Cairo program with an if statement where the condition
evaluates to false and no else block is provided?
"""
```

```
answer.answer = "The program skips the if block and moves on to the next bit of code."
prompt.distractors = [
  "The program panics.",
  "The program executes an implicit else block.",
  "The program stops execution."
]
```

```
[[questions]]
id = "5b0baa2b-f5b3-4718-a4d7-9f28c0540e79"
```

```
type = "MultipleChoice"
prompt.prompt = """
What feature does Cairo provide for repeating code execution until a specified condition
is met or gas runs out?
"""

answer.answer = "`loop` or `while` with a break condition."
prompt.distractors = [
    "Traditional `for` loops similar to those in imperative languages.",
    "Automated mechanisms that handle execution retries for you."
]
context = """
Cairo supports `loop` and `while` loops that continue execution indefinitely until a break
condition is explicitly met or the program runs out of gas.
"""
```