

SimpleProgram( $x, y$ )

$z \leftarrow x \cdot y$

$z > x ?$

true

$y$

false

$x$

```
graph TD; A[SimpleProgram(x, y)] --> B["z ← x · y"]; B --> C["z > x ?"]; C -- true --> D[y]; C -- false --> E[x];
```

The flowchart illustrates the execution of the SimpleProgram( $x, y$ ) function. It begins with a dark gray rounded rectangle containing the function name. An arrow points down to a light blue rectangle representing the assignment  $z \leftarrow x \cdot y$ . Another arrow points down to a yellow rectangle representing the conditional check  $z > x ?$ . From this decision node, two arrows branch out: one labeled 'true' pointing to a dark gray rounded rectangle labeled  $y$ , and another labeled 'false' pointing to a dark gray rounded rectangle labeled  $x$ .