

Question 1

In lecture, we saw that in order to run a C program (e.g., `hello.c`), we first need to run the command `make hello`, and then run the command `./hello`.

- a) What does running `make hello` do?
- b) What does running `./hello` do?
- c) What might happen if you were to run `./hello` without first running `make hello`?

Answers

- a) TODO
- b) TODO
- c) TODO

Question 2

In your own words, what does it mean for a function to have

- a. arguments?
- b. a return value?
- c. side effects?

For each of (a), (b), and (c), give one example.

Answer

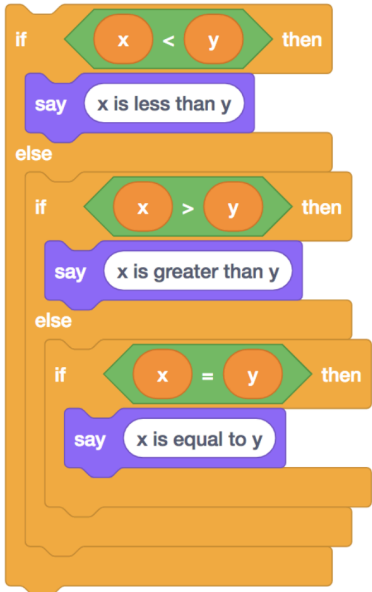
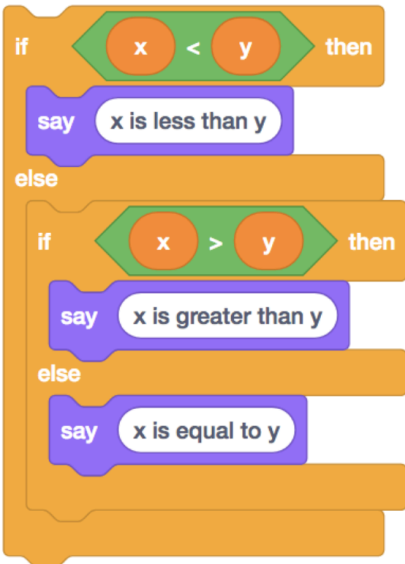
- a. TODO
- b. TODO
- c. TODO


Question 3

Recall that, in lecture, we saw the following two blocks of code, both of which print the same output.

Version 1	Version 2
<pre>if (x < y) { printf("x is less than y\n"); } else if (x > y) { printf("x is greater than y\n"); } else if (x == y) { printf("x is equal to y\n"); }</pre>	<pre>if (x < y) { printf("x is less than y\n"); } else if (x > y) { printf("x is greater than y\n"); } else { printf("x is equal to y\n"); }</pre>

These are really just the C equivalents of the following two blocks of Scratch code.

Version 1	Version 2
	

- a) Why, in C, do we use two equals signs (==) when we write `else if (x == y)`, whereas in Scratch we use just a single equals sign (=) in  ?
- b) Why is Version 2 of the code, whether implemented in Scratch or in C, arguably better designed than Version 1?

Answers

- a) TODO
- b) TODO