

Types of functions

(with functions review)

Review

What is a function?

Review

What is a function?

Functions are separated pieces of code
we can use in our main program

Review

Why do we use functions?

Review

Why do we use functions?

1. So you don't have to repeat code
2. To make code easier to understand
3. To make tools to do common tasks

There are three types of functions



functions



functions

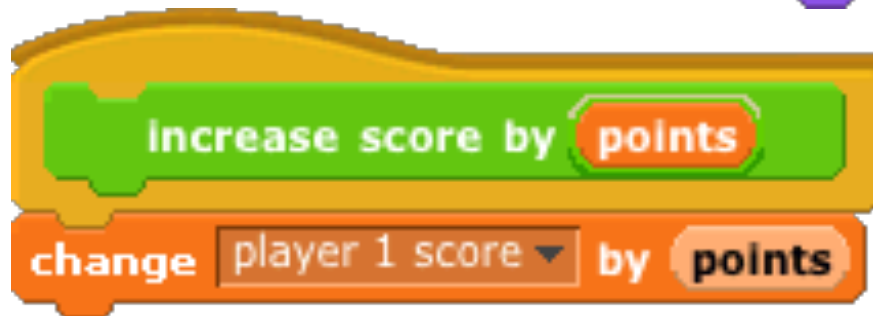
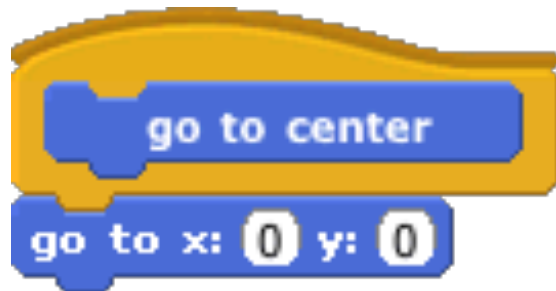


functions



functions

Command functions do things





functions

Little sibling sprite



reporter

functions

Reporter functions give you a value

report

square value

report value * value

random letter

set letter code to

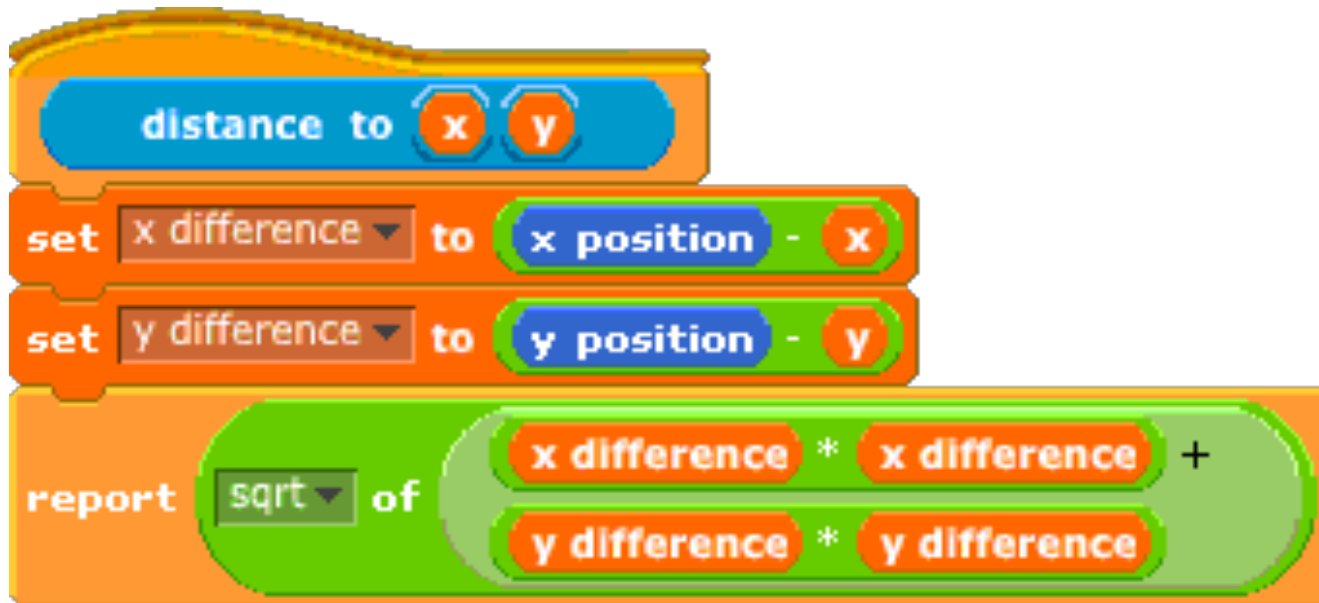
pick random ascii code of a to ascii code of z

report ascii letter code as letter

reporter

functions

They can report information about the environment too



reporter

functions

Reporter functions are often used to set variables or in comparisons



predicate

functions

Predicate functions give you a boolean



predicate

functions

Predicate functions are often used in if statements



You've already been using these types!

command

set pen color to 

set  to 0

think Hmm...

stop all 

reporter

answer

pick random 1 to 10

direction

costume #

predicate

touching  ?

key space  pressed?

 < 

 or 

Guess the function type!

Hold up fingers to say which type you think each function is

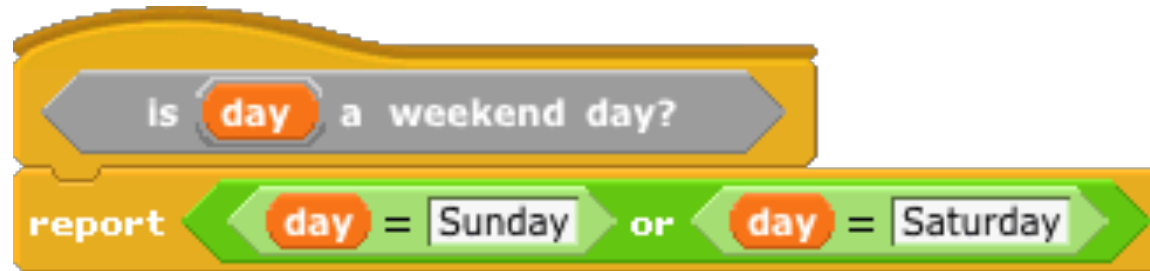
1 Finger for **Command**

2 Fingers for **Reporter**

3 Fingers for **Predicate**

Guess the function type!

1: Command, 2: Reporter, 3: Predicate

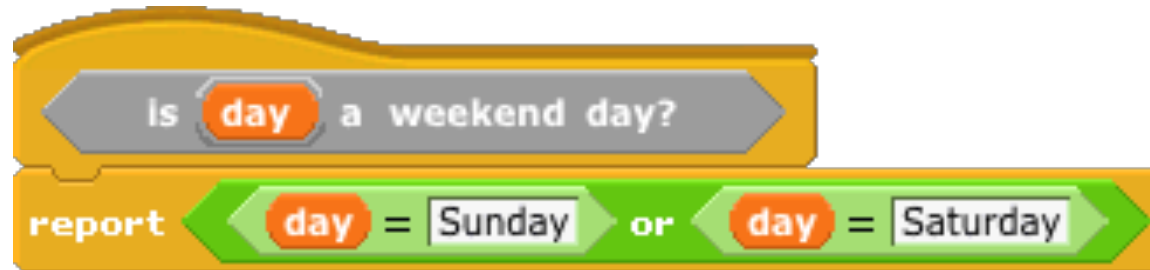


Example Usage ----



Guess the function type!

3: Predicate



Example Usage ----



Guess the function type!

1: Command, 2: Reporter, 3: Predicate



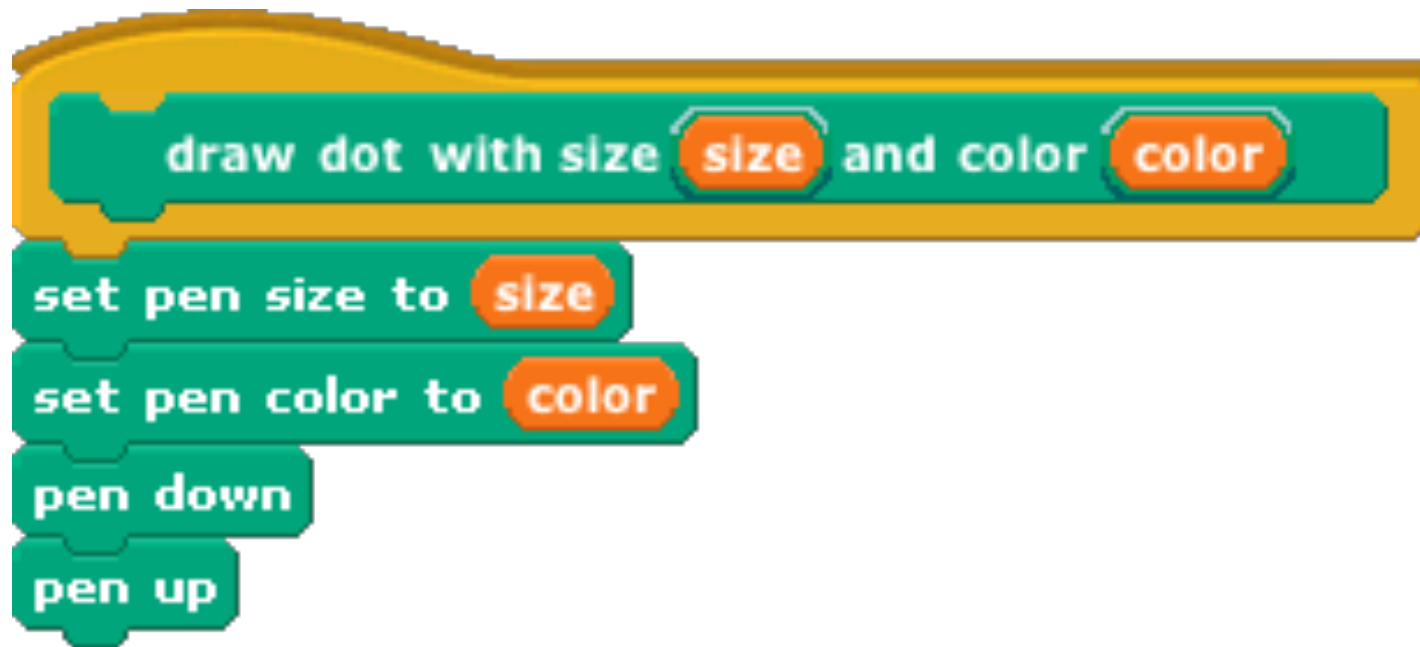
Guess the function type!

2: Reporter



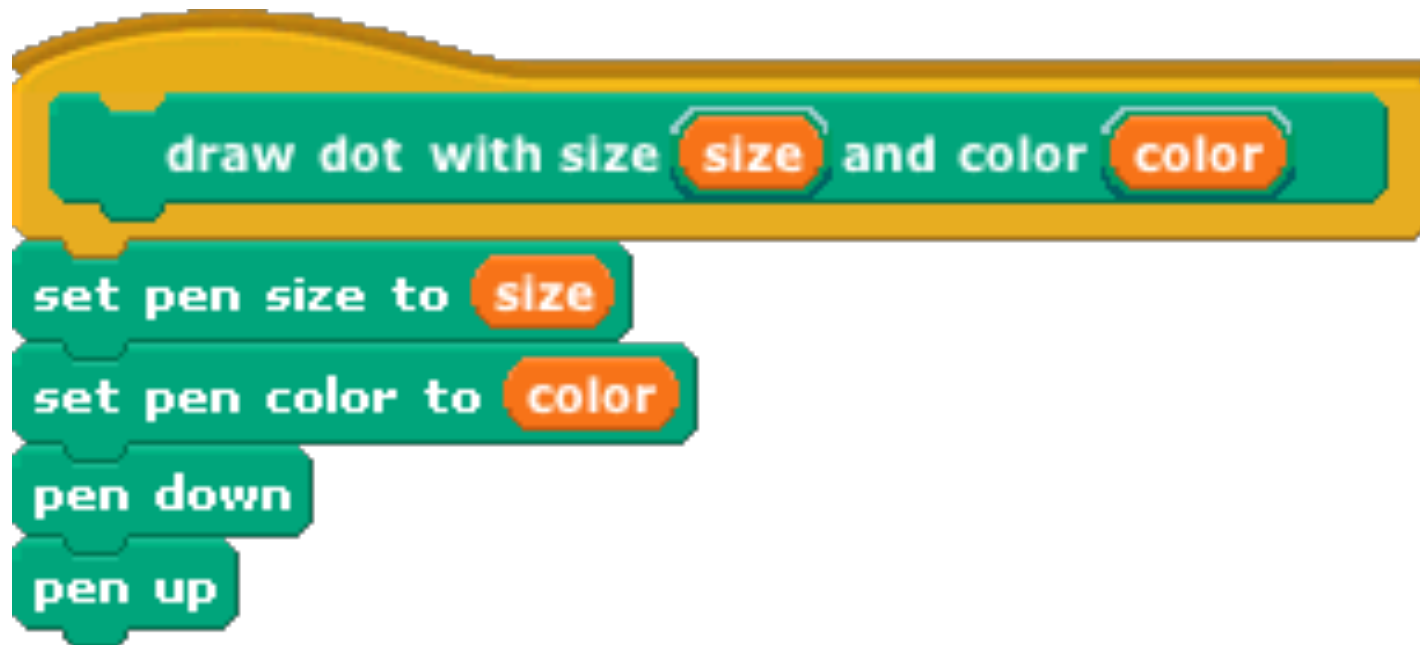
Guess the function type!

1: Command, 2: Reporter, 3: Predicate



Guess the function type!

1: Command



Guess the function type!

1: Command, 2: Reporter, 3: Predicate

A blue button with a 3D effect, featuring a gradient from light blue to dark blue. The text "mouse down?" is written in a white, monospaced font in the center of the button.

mouse down?

Guess the function type!

3: Predicate

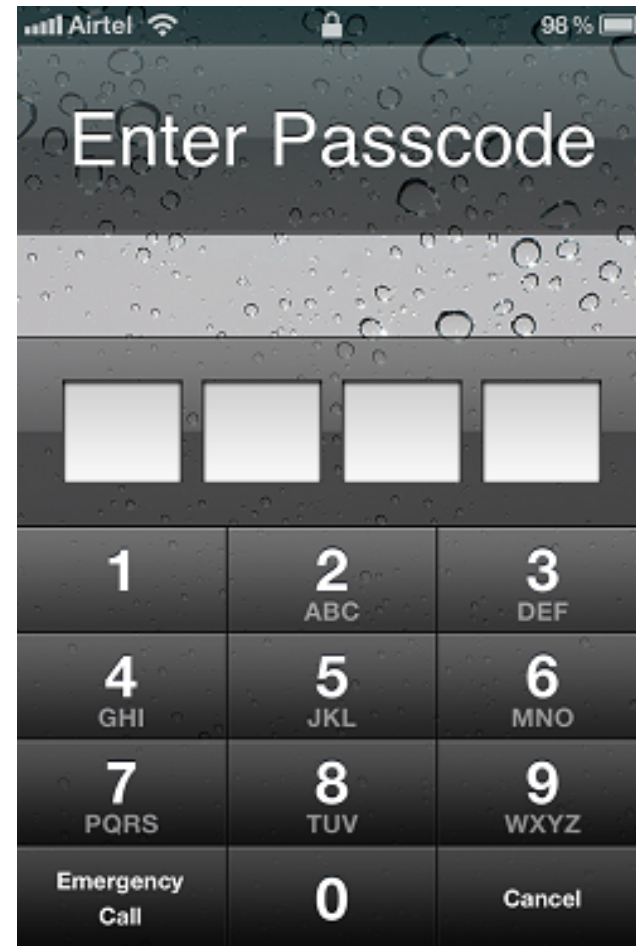


mouse down?

Guess the function type!

1: Command, 2: Reporter, 3: Predicate

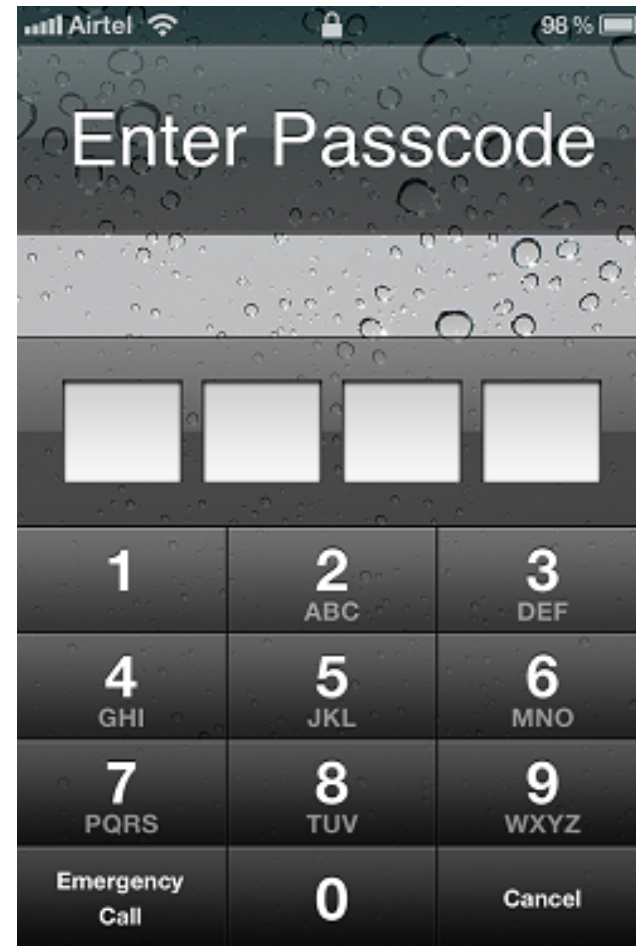
A function that
decides if you
entered your
phone password
correctly



Guess the function type!

3: Predicate

A function that
decides if you
entered your
phone password
correctly



Guess the function type!

1: Command, 2: Reporter, 3: Predicate

pick random 1 to 10

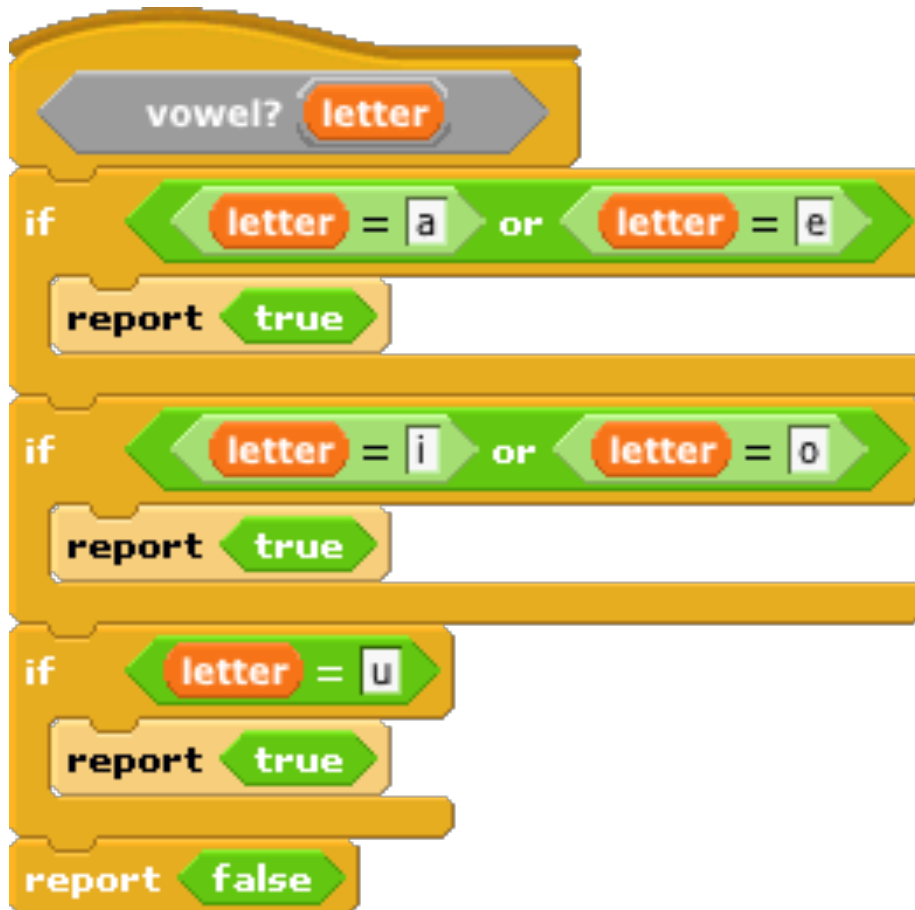
Guess the function type!

2: Reporter

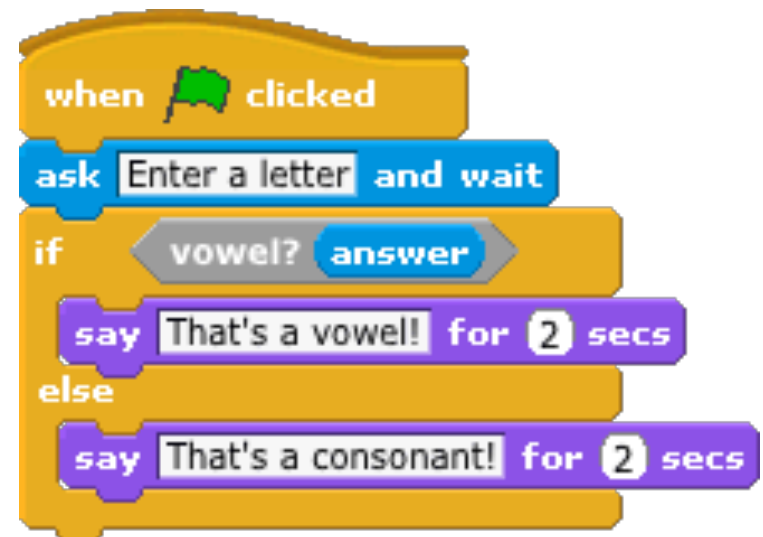
pick random 1 to 10

Guess the function type!

1: Command, 2: Reporter, 3: Predicate

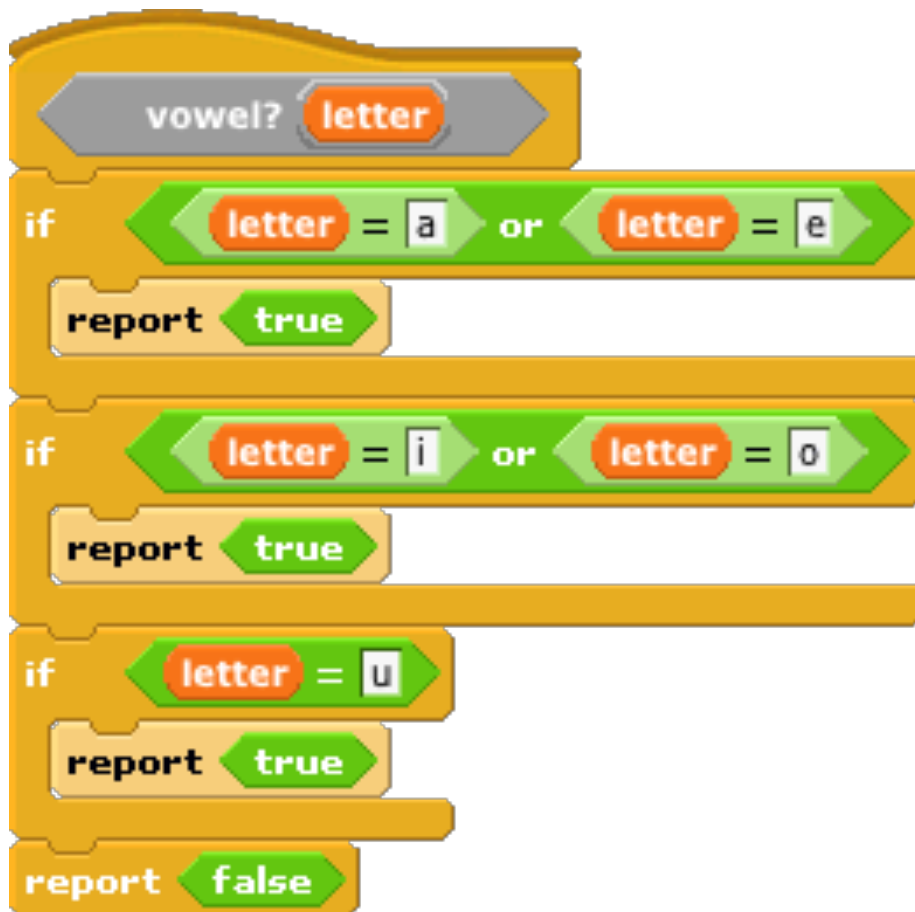


Example Usage

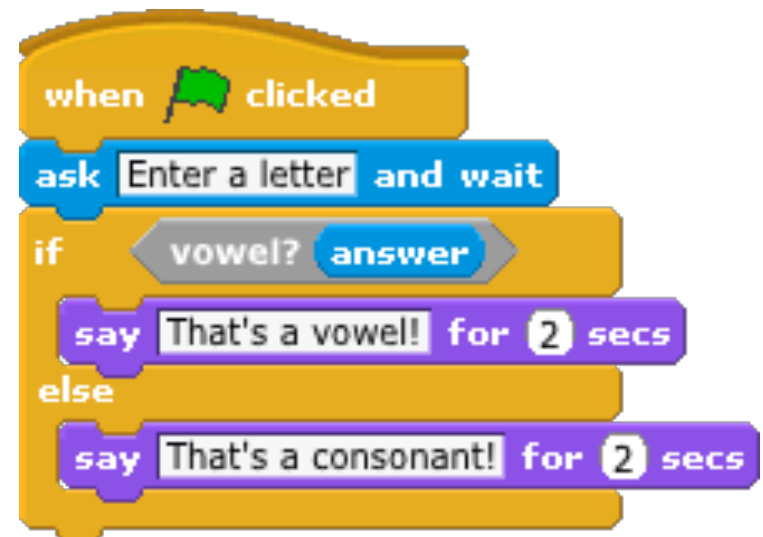


Guess the function type!

3: Predicate



Example Usage



Guess the function type!

1: Command, 2: Reporter, 3: Predicate



Guess the function type!

1: Command



Guess the function type!

1: Command, 2: Reporter, 3: Predicate



Guess the function type!

1: Command



Guess the function type!

1: Command, 2: Reporter, 3: Predicate



Guess the function type!

2: Reporter



Guess the function type!

1: Command, 2: Reporter, 3: Predicate



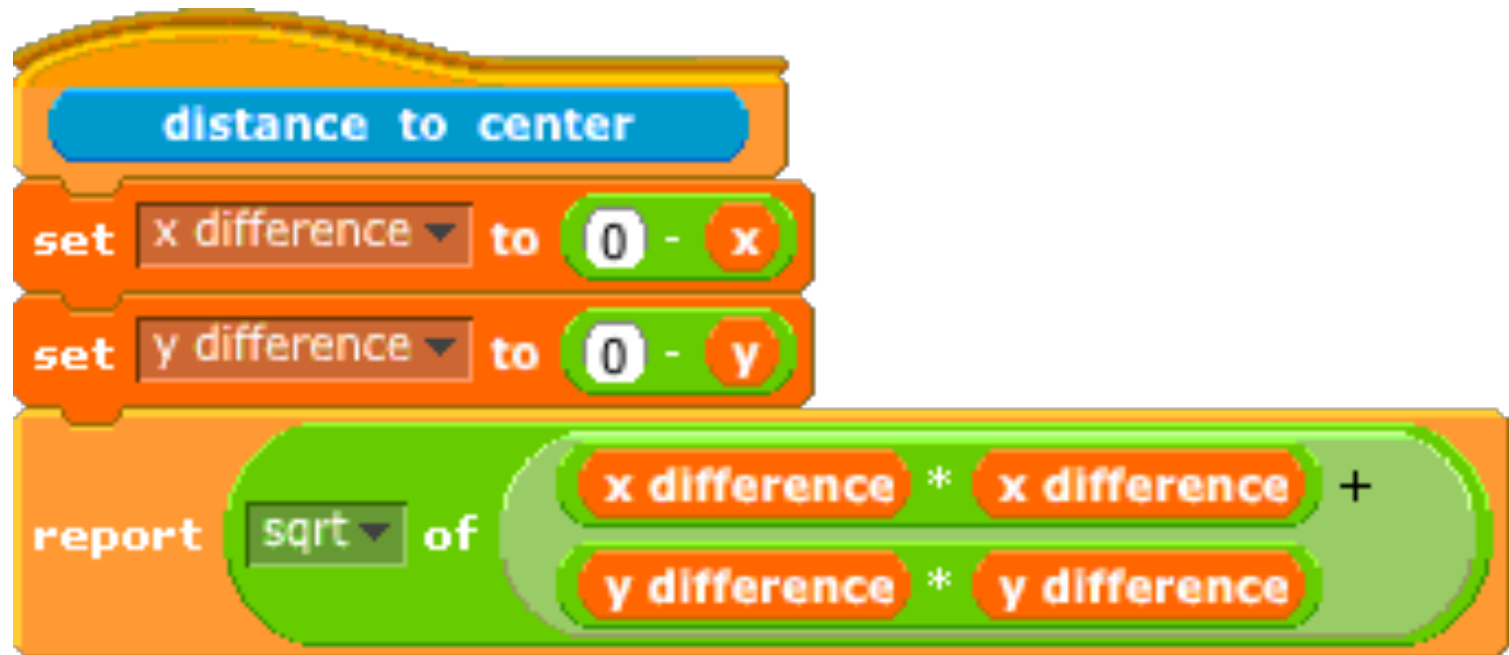
Guess the function type!

3: Predicate



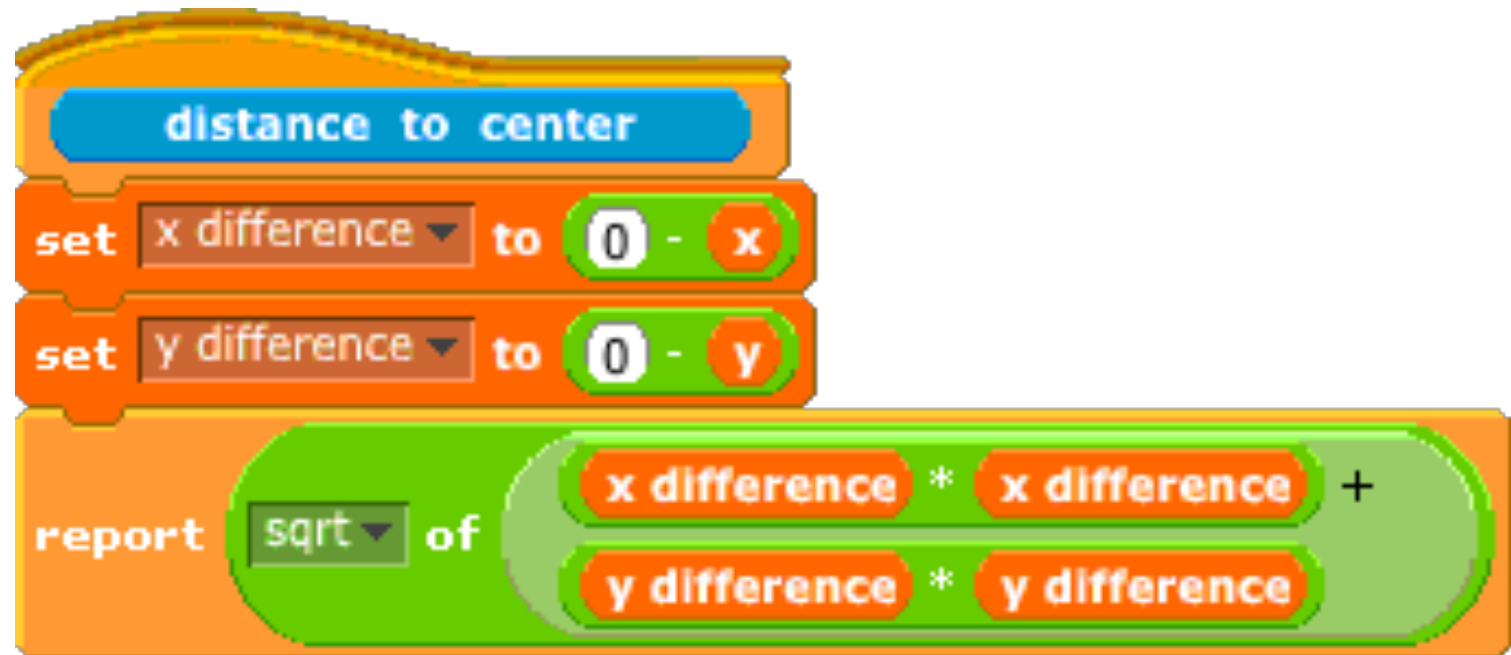
Guess the function type!

1: Command, 2: Reporter, 3: Predicate



Guess the function type!

2: Reporter



What types of functions do you have in your project?

command

functions

reporter

functions

predicate

functions