

Word Problem: is-collide

Directions: Use the Design Recipe to write a function `is-collide`, which takes in the coordinates of two objects and checks if they are close enough to collide.

Contract and Purpose Statement

Every contract has three parts...

is-collide:: Number, Number, Number, Number -> Boolean
function name *domain* *range*

Takes in two pairs of x/y coordinates and uses the distance between them to check for collision
what does the function do?

Examples

Write some examples, then circle and label what changes...

examples:

is-collide (0, 0, 3, 4) is distance(0, 0, 3, 4) < 50
function name *input(s)* *what the function produces*

is-collide (25, 50, 250, 480) is distance(25, 50, 250, 480) < 50
function name *input(s)* *what the function produces*

end

Definition

Write the definition, giving variable names to all your input values...

fun is-collide(x1, y1, x2, y2):
function name *variable(s)*

distance(x1, y1, x2, y2) < 50
what the function does with those variable(s)

end