

Word Problem: is-collision

Write a function *is-collision*, which takes FOUR inputs:

- ❑ px: The x-coordinate of the player
- ❑ py: The y-coordinate of the player
- ❑ cx: The x-coordinate of another game character
- ❑ cy: The y-coordinate of another game character

It should return true if the coordinates of the player are within **50 pixels** of the coordinates of the other character. Otherwise, false.

Contract+Purpose Statement

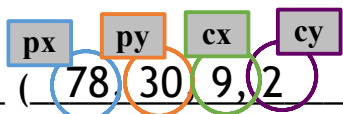
is-collision :: Number, Number, Number, Number -> Boolean
Consumes the coordinates of 2 characters: px, py, cx, and cy, produces
true if the distance between them is less than 50 pixels

Give Examples

Write examples of your function in action


examples:

is-collision (78, 30, 9, 2) is



distance(78, 30, 9, 2) < 50

is-collision (20, 40, 60, 80) is



distance(20, 40, 60, 80) < 50

end

Function

fun is-collision (px, py, cx, cy) :

distance(px, py, cx, cy) < 50

end