

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