

DESIGN RECIPE

Word Problem: collide?

Write a function collide?, 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`.

I. Contract+Purpose Statement

$$; \text{ name} : \text{ Domain} \rightarrow \text{Range}$$

What does the function do?

II. Give Examples

(EXAMPLE (_____)
Use the function here

_____)
find another way to get the same result here

(EXAMPLE (_____)
Use the function here...

_____)
find another way to get the same result here

III. Definition

```
(define ( function name variable names )
```

_____)