DESIGN RECIPE

Word Problem: collide?

Write a function <u>collide?</u>,*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

; _____ : _____ -> _____
           name   Domain   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

           _____)