## Word Problem: collide?

**Directions:** 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

Are the coordinates of the player within 50 pixels of the coordinates of the other character?

Contrac	and Purpose St	atement	
Every contrac	has three parts		
; coll	collide? : number number number number → boole		
function name domain			
; Is the	Player (px, py	y) within 50 pixels of another Character (cx,	, cy)?
		what does the function do?	
Example	·S		
	amples, then circle and l	abel what changes	
(EXAMPLE(	collide?	25 75 30 270 )	
_	function name	input(s)	
	(< (distance	25 75 30 270) 50)	)
	what the	e function produces	
(EXAMPLE(_	collide?	25 75 100 75 )	
	function name	input(s)	
	(< (distance	25 75 100 75) 50)	)
	what the	e function produces	
Definitio	1		
		es to all your input values	
(define(	collide? p	ox py cx cy )	
_	function name	variables	
(	<pre>&lt; (distance px</pre>	py cx cy) 50)	)
		what the function does with those variables	