

Word Problem: collide?

Directions: Use the Design Recipe to write a function `collide?`, which takes in the coordinates of two objects and checks if they are close enough to collide.

Contract and Purpose Statement

Every contract has three parts...

`collide?` : Number Number Number Number -> Boolean
function name *domain* *range*

`Takes in two pairs of x/y coordinates and uses the distance between them to check for collision`
what does the function do?

Examples

Write some examples, then circle and label what changes...

(EXAMPLE (`collide?` 0 0 3 4) (`< (distance 0 0 3 4) 50`))
function name *input(s)* *what the function produces*

(EXAMPLE (`collide?` 25 50 250 480) (`< (distance 25 50 250 480) 50`))
function name *input(s)* *what the function produces*

Definition

Write the definition, giving variable names to all your input values...

(define (`collide?` x1 y1 x2 y2)
function name *variable(s)*
`< (distance x1 y1 x2 y2) 50`)
what the function does with those variable(s)