# DESIGN

## Pseudocode

# Initialize Scanner object

# Input string

# Split string into separate X and Y values

# Determine if X and Y are inside the rectangle:

# X must be in the set of {-5, 5}

# minX = -5

# maxX = 5

# Y must be in the set of {-2.5, 2.5}

# minY = -2.5

# maxX = 2.5

# If ( minX <= X <= maxX) AND (minY <= Y <= maxY), then (x,y) is inside the rectangle.

# return true

# or else,

# return False

# Print out the results

# If returned value is true:

# output “Point (x, y) is in the rectangle”

# If returned value is false:

# output “Point (x, y) is not in the rectangle”

## Flowchart

A screenshot of a computer

Description automatically generated

# TEST PLAN

|  |  |  |
| --- | --- | --- |
| Test # | Input | Expected Output |
| 1 | 2 2 | Point (2.0, 2.0) is in the rectangle |
| 2 | 6 4 | Point (6.0, 4.0) is not in the rectangle |
| 3 | -5.1 -2.4 | Point (-5.1, -2.4) is not in the rectangle |
| 4 | -4.9 2.49 | Point (-4.9, 2.49) is in the rectangle |
| 5 | -4.99 -2.499 | Point (-4.99, -2.499) is in the rectangle |

# SCREEN SHOTS

## Test 1

A blue background with white text

Description automatically generated

## Test 2

A blue background with white text

Description automatically generated

## Test 3

A blue background with white text

Description automatically generated

## Test 4

A blue background with white text

Description automatically generated

## Test 5

A blue background with white text

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