Lab 1 Output

Exercise1

Case #: 1

The First Rectangle's top corner is: [xpos= 1.0,ypos= 1.0]

It's width is: 5.0

It's height is: 5.0

The Second Rectangle's top corner is: [xpos= 2.0,ypos= 2.0]

It's width is: 3.0

It's height is: 3.0

The Contains Method Returns: true

The Touches Method Returns: false

Case #: 2

The First Rectangle's top corner is: [xpos= 1.0,ypos= 1.0]

It's width is: 5.0

It's height is: 5.0

The Second Rectangle's top corner is: [xpos= 2.0,ypos= 2.0]

It's width is: 4.0

It's height is: 4.0

The Contains Method Returns: false

The Touches Method Returns: true

Case #: 3

The First Rectangle's top corner is: [xpos= 1.0,ypos= 1.0]

It's width is: 5.0

It's height is: 5.0

The Second Rectangle's top corner is: [xpos= 6.0,ypos= 0.0]

It's width is: 3.0

It's height is: 1.0

The Contains Method Returns: false

The Touches Method Returns: true

Case #: 4

The First Rectangle's top corner is: [xpos= 1.0,ypos= 1.0]

It's width is: 5.0

It's height is: 5.0

The Second Rectangle's top corner is: [xpos= 6.0,ypos= 2.0]

It's width is: 4.0

It's height is: 4.0

The Contains Method Returns: false

The Touches Method Returns: true

Case #: 5

The First Rectangle's top corner is: [xpos= 1.0,ypos= 1.0]

It's width is: 5.0

It's height is: 5.0

The Second Rectangle's top corner is: [xpos= 4.0,ypos= 2.0]

It's width is: 4.0

It's height is: 3.0

The Contains Method Returns: false

The Touches Method Returns: false

Case #: 6

The First Rectangle's top corner is: [xpos= 1.0,ypos= 1.0]

It's width is: 5.0

It's height is: 5.0

The Second Rectangle's top corner is: [xpos= 8.0,ypos= 2.0]

It's width is: 4.0

It's height is: 4.0

The Contains Method Returns: false

The Touches Method Returns: false

Case #: 7

The First Rectangle's top corner is: [xpos= 1.0,ypos= 1.0]

It's width is: 10.0

It's height is: 10.0

The Second Rectangle's top corner is: [xpos= 3.0,ypos= 3.0]

It's width is: 1.0

It's height is: 1.0

The Contains Method Returns: true

The Touches Method Returns: false

Case #: 8

The First Rectangle's top corner is: [xpos= 4.0,ypos= 5.0]

It's width is: 6.0

It's height is: 7.0

The Second Rectangle's top corner is: [xpos= 4.0,ypos= 10.0]

It's width is: 1.0

It's height is: 1.0

The Contains Method Returns: false

The Touches Method Returns: true

Case #: 9

The First Rectangle's top corner is: [xpos= 44.0,ypos= 45.0]

It's width is: 3.0

It's height is: 3.0

The Second Rectangle's top corner is: [xpos= 55.0,ypos= 66.0]

It's width is: 4.0

It's height is: 3.0

The Contains Method Returns: false

The Touches Method Returns: false

Process finished with exit code 0

Exercise2

Case #: 1

The First Circle's centre is 5.0, 5.0

It's Radius is: 4.0

Its Area is: 50.24

The Second Circle's centre is 10.0, 2.0

It's Radius is: 3.0

Its Area is: 28.259999999999998

The Contains Method Returns: false

The Touches Method Returns: false

Case #: 2

The First Circle's centre is 4.0, 2.0

It's Radius is: 1.0

Its Area is: 3.14

The Second Circle's centre is 2.0, 2.0

It's Radius is: 1.0

Its Area is: 3.14

The Contains Method Returns: false

The Touches Method Returns: true

Case #: 3

The First Circle's centre is 4.0, 2.0

It's Radius is: 4.0

Its Area is: 50.24

The Second Circle's centre is 2.0, 2.0

It's Radius is: 2.0

Its Area is: 12.56

The Contains Method Returns: false

The Touches Method Returns: true

Case #: 4

The First Circle's centre is 4.0, 4.0

It's Radius is: 5.0

Its Area is: 78.5

The Second Circle's centre is 4.0, 4.0

It's Radius is: 2.0

Its Area is: 12.56

The Contains Method Returns: true

The Touches Method Returns: false

Case #: 5

The First Circle's centre is 2.0, 2.0

It's Radius is: 5.0

Its Area is: 78.5

The Second Circle's centre is 4.0, 4.0

It's Radius is: 5.0

Its Area is: 78.5

The Contains Method Returns: false

The Touches Method Returns: false

Case #: 6

The First Circle's centre is 5.0, 5.0

It's Radius is: 3.0

Its Area is: 28.259999999999998

The Second Circle's centre is 9.0, 9.0

It's Radius is: 2.0

Its Area is: 12.56

The Contains Method Returns: false

The Touches Method Returns: false

Case #: 7

The First Circle's centre is 3.0, 4.0

It's Radius is: 8.0

Its Area is: 200.96

The Second Circle's centre is 2.0, 4.0

It's Radius is: 9.0

Its Area is: 254.34

The Contains Method Returns: false

The Touches Method Returns: false

Case #: 8

The First Circle's centre is 2.0, 8.0

It's Radius is: 8.0

Its Area is: 200.96

The Second Circle's centre is 8.0, 8.0

It's Radius is: 8.0

Its Area is: 200.96

The Contains Method Returns: false

The Touches Method Returns: false

Process finished with exit code 0