DrawingProgramMain Output

------------ Add Shape ---------------

(Triangle, 3.000000, 11.000000)

(Square, 4.000000, 8.000000)

(Rectangle, 20.000000, 18.000000)

(Circle, 50.265482, 25.132741)

------------ Sort Shape ---------------

(Circle, 50.265482, 25.132741)

(Rectangle, 20.000000, 18.000000)

(Square, 4.000000, 8.000000)

(Triangle, 3.000000, 11.000000)

------------ Add more shape ---------------

(Circle, 50.265482, 25.132741)

(Rectangle, 20.000000, 18.000000)

(Square, 4.000000, 8.000000)

(Triangle, 3.000000, 11.000000)

(Triangle, 7.500000, 19.000000)

(Square, 16.000000, 16.000000)

(Rectangle, 21.000000, 20.000000)

(Circle, 28.274334, 18.849556)

------------ Sort Shape ---------------

(Circle, 28.274334, 18.849556)

(Circle, 50.265482, 25.132741)

(Rectangle, 20.000000, 18.000000)

(Rectangle, 21.000000, 20.000000)

(Square, 4.000000, 8.000000)

(Square, 16.000000, 16.000000)

(Triangle, 3.000000, 11.000000)

(Triangle, 7.500000, 19.000000)

------------ Get Shape ---------------

Get shape at index 0: (Circle, 28.274334, 18.849556)

Get shape at index 2: (Rectangle, 20.000000, 18.000000)

Get shape at index 4: (Square, 4.000000, 8.000000)

Get shape at index 6: (Triangle, 3.000000, 11.000000)

------------ Set/Replace Shape ---------------

Replace shape at index 5 from Square to Circle

(Circle, 28.274334, 18.849556)

(Circle, 50.265482, 25.132741)

(Rectangle, 20.000000, 18.000000)

(Rectangle, 21.000000, 20.000000)

(Square, 4.000000, 8.000000)

(Circle, 3.141593, 6.283185)

(Triangle, 3.000000, 11.000000)

(Triangle, 7.500000, 19.000000)

------------ Print Shape ---------------

Print all 'Triangle' in drawing program

(Triangle, 3.000000, 11.000000)

(Triangle, 7.500000, 19.000000)

------------ Remove Shape ---------------

Removed 3 Circle(s).

(Rectangle, 20.000000, 18.000000)

(Rectangle, 21.000000, 20.000000)

(Square, 4.000000, 8.000000)

(Triangle, 3.000000, 11.000000)

(Triangle, 7.500000, 19.000000)

------------ Iterator ---------------

(Rectangle, 20.000000, 18.000000)

(Rectangle, 21.000000, 20.000000)

(Square, 4.000000, 8.000000)

(Triangle, 3.000000, 11.000000)

(Triangle, 7.500000, 19.000000)

------------ Draw Shape ---------------

Use draw() method to draw 3 Shapes

Triangle, area: 7.500000, perimeter: 19.000000

Square, area: 16.000000, perimeter: 16.000000

Rectangle, area: 21.000000, perimeter: 20.000000

Circle, area: 28.274334, perimeter: 18.849556