Assignment 6 UML Diagram <<interface>> ShapeAnimationModel 5 4 1 + void makeShape(Shape shape) + void removeShape(Shape shape) + void createTransformation(Transformation transformation) + String animationReadback() + ArrayList<ShapeInterface> getShape() ShapeSort ShapeAnimationModeIImpl + int compare(Shape s1, Shape s2) -List<Shape> shapeList -List<Transformation> transformationList TransformationSort + void makeShape(Shape shape) + void removeShape(Shape shape) + int compare(Transformation t1, + void createTransformation(Transformation transformation) Transformation t2) + String animationReadback() + ArrayList<Shape> getShape() <<interface>> <<interface>> Shape Transformation + String getName() + void transform(Shape shape) + String getType() + String getName() Point2D + Point2D getLocation() + int getFromTime() + Color getColor() -double x + int getToTime() + int getAppearTime() -double v + String toString() + int getDisappearTime() + Point2D getNewLocation() + double getX() + ArrayList<Transformation> getTransformations() + void updateLocation() + double getY() + double getWidth() + String toString() + double getHeight() + double setX() + String toString() + double setY() AbstractTransformation String name int fromTime int toTime ArrrayList<Shape> transformedShape AbstractShape String name + String getName() Point2D currentLocation + int getFromTime() Color color + int getToTime() int appearTime + void transform(Shape shape) int disappearTime + String toString() Color ArrayList<Transformatioin> transformationsList + Point2D getNewLocation() -double red double width + void updateLocation() -double green double height double blue + String getName() + double getRed() + String getType() + double getGreen() + Point2D getLocation() + double getBlue() + Color getColor() String toString() + int getAppearTime() + int getDisappearTime() + ArrayList<Transformation> getTransformations() + double getWidth() + double getHeight() + String toString() Oval Rectangle Super (String name, Point2D Super (String name, Point2D currentLocation, Color color, int ChangeColor Move Scale currentLocation, Color color, int appearTime, int disappearTime, appearTime, int disappearTime, super(name, fromTime, double xRadius, double yRadius) super(name, fromTime, toTime) super (name, fromTime, double width, double height) toTime) Point2D newLocation toTime) double toWidth String type Color color String type double toHeight + void transform(Shape shape) + double getWidth() + Point2D getNewLocation() + void transform(Shape + double getHeight() + Color getColor() + void updateLocation() + String getType() shape) + String toString() + String getType() + String toString() + String toString() + String toString() + String toString()