Graphics Library Testing Plan - Line Segment

Plan Progress: Incomplete

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Testing Progress: Completed

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Module Version: LineSegment v1.0:

| Test Case | Test Criteria  | Input value | Expected Result | Actual Result | Pass/Fail |
| --- | --- | --- | --- | --- | --- |
| LineSegment() | Constructor with validparameters | 50, 50, 150, 150,Color.BLACK, 1.0, 2.0 | testGetStartPosition() = (50, 50), testGetEndPosition() = (150, 150), testGetColor() = Color.BLACK, testGetThickness() = 1.0 |  |  |
| Constructor with validparameters and gradi-ent | 50, 50, 150,150, Color.RED,Color.BLUE, 1.0, 2.0 | testGetStartPosition() = (50, 50), testGetEndPosition() = (150, 150), testGetColor() = Gradient (RED to BLUE), testGetThickness() = 1.0 |  |  |
| Invalid? |  | testInvalidPositionException() = IllegalArgumentException | failed | failed |
| setStartPosition() | setStartPosition() | 100, 100 | testGetStartPosition() = (100, 100) |  |  |
| Invalid? |  | testInvalidPositionException() = IllegalArgumentException | failed | failed |
| setEndPosition() | setEndPosition() | 200, 200 | testGetEndPosition() = (100, 100) |  |  |
| Invalid | -200,200 | testInvalidPositionException() = IllegalArgumentException | failed | failed |
| setColor() | setColor() | Color.BLUE | testGetColor() = Color.BLUE |  |  |
| Invalid | N/A |  | failed | failed |
| setThickness() | setThickness() | 3.0 | testGetThickness() = 3.0 |  |  |
| Invalid? | -3.0 | testInvalidThicknessException() = IllegalArgumentException | failed | failed |
| rotate() | rotate() | 45 | testGetRotate() = 45.0 |  |  |
| Invalid | N/A |  | failed | failed |
| setVisibleAfterDelay() | setVisibleAfterDelay() | 2.0 | testGetVisibleAfterDelay() = true, 2.0 |  |  |
| Invalid | -2.0 | testInvalidTimeException() = IllegalArgumentException | failed | failed |
| setInvisibleAfterDelay() | setInvisibleAfterDelay() | 2.0 | testGetVisibleAfterDelay() =false, 2.0 |  |  |
| Invalid? | -2.0 | testInvalidTimeException() = IllegalArgumentException | failed | failed |
| fadeIn() | fadeIn() | 2.0 | testFadeIn() = true, 2.0 |  |  |
| Invalid? | -2.0 | testInvalidTimeException() = IllegalArgumentException | failed | failed |
| fadeOut() | fadeOut() | 2.0 | testFadeOut()=false,2.0 |  |  |
| Invalid? | -2.0 | testInvalidTimeException() = IllegalArgumentException | failed | failed |
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