

# Range.java

```

1  /* =====
2  * JFreeChart : a free chart library for the Java(tm) platform
3  * =====
4  *
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6  *
7  * Project Info:  http://www.jfree.org/jfreechart/index.html
8  *
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26 *
27 * -----
28 * Range.java
29 * -----
30 * (C) Copyright 2002-2014, by Object Refinery Limited and Contributors.
31 *
32 * Original Author:  David Gilbert (for Object Refinery Limited);
33 * Contributor(s):   Chuanhao Chiu;
34 *                   Bill Kelemen;
35 *                   Nicolas Brodu;
36 *                   Sergei Ivanov;
37 *
38 * Changes (from 23-Jun-2001)
39 * -----
40 * 22-Apr-2002 : Version 1, loosely based by code by Bill Kelemen (DG);
41 * 30-Apr-2002 : Added getLength() and getCentralValue() methods. Changed
42 *               argument check in constructor (DG);
43 * 13-Jun-2002 : Added contains(double) method (DG);
44 * 22-Aug-2002 : Added fix to combine method where both ranges are null, thanks
45 *               to Chuanhao Chiu for reporting and fixing this (DG);
46 * 07-Oct-2002 : Fixed errors reported by Checkstyle (DG);
47 * 26-Mar-2003 : Implemented Serializable (DG);
48 * 14-Aug-2003 : Added equals() method (DG);
49 * 27-Aug-2003 : Added toString() method (BK);

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50  * 11-Sep-2003 : Added Clone Support (NB);
51  * 23-Sep-2003 : Fixed Checkstyle issues (DG);
52  * 25-Sep-2003 : Oops, Range immutable, clone not necessary (NB);
53  * 05-May-2004 : Added constrain() and intersects() methods (DG);
54  * 18-May-2004 : Added expand() method (DG);
55  * ----- JFreeChart 1.0.x -----
56  * 11-Jan-2006 : Added new method expandToInclude(Range, double) (DG);
57  * 18-Dec-2007 : New methods intersects(Range) and scale(...) thanks to Sergei
58  *               Ivanov (DG);
59  * 08-Jan-2012 : New method combineIgnoringNaN() (DG);
60  * 23-Feb-2014 : Added isNaNRange() method (DG);
61  *
62  */
63
64  package org.jfree.data;
65
66  import java.io.Serializable;
67  import org.jfree.chart.util.ParamChecks;
68
69  /**
70   * Represents an immutable range of values.
71   */
72  public strictfp class Range implements Serializable {
73
74      /** For serialization. */
75      private static final long serialVersionUID = -906333695431863380L;
76
77      /** The lower bound of the range. */
78      private double lower;
79
80      /** The upper bound of the range. */
81      private double upper;
82
83      /**
84       * Creates a new range.
85       *
86       * @param lower the lower bound (must be <= upper bound).
87       * @param upper the upper bound (must be >= lower bound).
88       */
89      public Range(double lower, double upper) {
90          19      if (lower > upper) {
91              9      String msg = "Range(double, double): require lower (" + lower
92                  11          + ") <= upper (" + upper + ").";
93              1      throw new IllegalArgumentException(msg);
94          }
95          6      this.lower = lower;
96          6      this.upper = upper;
97      }
98
99      /**
100       * Returns the lower bound for the range.
101       *
102       * @return The lower bound.

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103     */
104     public double getLowerBound() {
105 7         return this.lower;
106     }
107
108     /**
109      * Returns the upper bound for the range.
110      *
111      * @return The upper bound.
112      */
113     public double getUpperBound() {
114 7         return this.upper;
115     }
116
117     /**
118      * Returns the length of the range.
119      *
120      * @return The length.
121      */
122     public double getLength() {
123 19         return this.upper - this.lower;
124     }
125
126     /**
127      * Returns the central value for the range.
128      *
129      * @return The central value.
130      */
131     public double getCentralValue() {
132 47         return this.lower / 2.0 + this.upper / 2.0;
133     }
134
135     /**
136      * Returns true if the range contains the specified value and
137      * false otherwise.
138      *
139      * @param value the value to lookup.
140      *
141      * @return true if the range contains the specified value.
142      */
143     public boolean contains(double value) {
144 53         return (value >= this.lower && value <= this.upper);
145     }
146
147     /**
148      * Returns true if the range intersects with the specified
149      * range, and false otherwise.
150      *
151      * @param b0 the lower bound (should be <= b1).
152      * @param b1 the upper bound (should be >= b0).
153      *
154      * @return A boolean.
155      */

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156     public boolean intersects(double b0, double b1) {
157         19         if (b0 <= this.lower) {
158             34             return (b1 > this.lower);
159         }
160         else {
161             53             return (b0 < this.upper && b1 >= b0);
162         }
163     }
164
165     /**
166      * Returns true if the range intersects with the specified
167      * range, and false otherwise.
168      *
169      * @param range  another range (null not permitted).
170      *
171      * @return A boolean.
172      *
173      * @since 1.0.9
174      */
175     public boolean intersects(Range range) {
176         6         return intersects(range.getLowerBound(), range.getUpperBound());
177     }
178
179     /**
180      * Returns the value within the range that is closest to the specified
181      * value.
182      *
183      * @param value  the value.
184      *
185      * @return The constrained value.
186      */
187     public double constrain(double value) {
188         5         double result = value;
189         14         if (!contains(value)) {
190             19             if (value > this.upper) {
191                 5                 result = this.upper;
192             }
193             19             else if (value < this.lower) {
194                 5                 result = this.lower;
195             }
196         }
197         7         return result;
198     }
199
200     /**
201      * Creates a new range by combining two existing ranges.
202      * <P>
203      * Note that:
204      * <ul>
205      * <li>either range can be null, in which case the other
206      *     range is returned;</li>
207      * <li>if both ranges are null the return value is
208      *     null.</li>

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209      * </ul>
210      *
211      * @param range1  the first range (<code>>null</code> permitted).
212      * @param range2  the second range (<code>>null</code> permitted).
213      *
214      * @return A new range (possibly <code>>null</code>).
215      */
216      public static Range combine(Range range1, Range range2) {
217 4         if (range1 == null) {
218 2             return range2;
219         }
220 4         if (range2 == null) {
221 2             return range1;
222         }
223 4         double l = Math.min(range1.getLowerBound(), range2.getLowerBound());
224 4         double u = Math.max(range1.getUpperBound(), range2.getUpperBound());
225 13        return new Range(l, u);
226     }
227
228     /**
229      * Returns a new range that spans both <code>range1</code> and
230      * <code>range2</code>. This method has a special handling to ignore
231      * Double.NaN values.
232      *
233      * @param range1  the first range (<code>>null</code> permitted).
234      * @param range2  the second range (<code>>null</code> permitted).
235      *
236      * @return A new range (possibly <code>>null</code>).
237      *
238      * @since 1.0.15
239      */
240     public static Range combineIgnoringNaN(Range range1, Range range2) {
241 4         if (range1 == null) {
242 13             if (range2 != null && range2.isNaNRange()) {
243 1                 return null;
244             }
245 2             return range2;
246         }
247 4         if (range2 == null) {
248 9             if (range1.isNaNRange()) {
249 1                 return null;
250             }
251 2             return range1;
252         }
253 4         double l = min(range1.getLowerBound(), range2.getLowerBound());
254 4         double u = max(range1.getUpperBound(), range2.getUpperBound());
255 28         if (Double.isNaN(l) && Double.isNaN(u)) {
256 1             return null;
257         }
258 13        return new Range(l, u);
259     }
260
261     /**

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262     * Returns the minimum value.  If either value is NaN, the other value is
263     * returned.  If both are NaN, NaN is returned.
264     *
265     * @param d1  value 1.
266     * @param d2  value 2.
267     *
268     * @return The minimum of the two values.
269     */
270     private static double min(double d1, double d2) {
271 14         if (Double.isNaN(d1)) {
272 7             return d2;
273         }
274 14         if (Double.isNaN(d2)) {
275 7             return d1;
276         }
277 14         return Math.min(d1, d2);
278     }
279
280     private static double max(double d1, double d2) {
281 14         if (Double.isNaN(d1)) {
282 7             return d2;
283         }
284 14         if (Double.isNaN(d2)) {
285 7             return d1;
286         }
287 14         return Math.max(d1, d2);
288     }
289
290     /**
291     * Returns a range that includes all the values in the specified
292     * <code>range</code> AND the specified <code>value</code>.
293     *
294     * @param range  the range (<code>null</code> permitted).
295     * @param value  the value that must be included.
296     *
297     * @return A range.
298     *
299     * @since 1.0.1
300     */
301     public static Range expandToInclude(Range range, double value) {
302 4         if (range == null) {
303 13             return new Range(value, value);
304         }
305 15         if (value < range.getLowerBound()) {
306 9             return new Range(value, range.getUpperBound());
307         }
308 15         else if (value > range.getUpperBound()) {
309 9             return new Range(range.getLowerBound(), value);
310         }
311         else {
312 2             return range;
313         }
314     }

```

```

315
316 /**
317  * Creates a new range by adding margins to an existing range.
318  *
319  * @param range the range (<code>>null</code> not permitted).
320  * @param lowerMargin the lower margin (expressed as a percentage of the
321  * range length).
322  * @param upperMargin the upper margin (expressed as a percentage of the
323  * range length).
324  *
325  * @return The expanded range.
326  */
327 public static Range expand(Range range,
328                           double lowerMargin, double upperMargin) {
329 1     ParamChecks.nullNotPermitted(range, "range");
330 1     double length = range.getLength();
331 25     double lower = range.getLowerBound() - length * lowerMargin;
332 25     double upper = range.getUpperBound() + length * upperMargin;
333 19     if (lower > upper) {
334 45         lower = lower / 2.0 + upper / 2.0;
335 5         upper = lower;
336     }
337 13     return new Range(lower, upper);
338 }
339
340 /**
341  * Shifts the range by the specified amount.
342  *
343  * @param base the base range (<code>>null</code> not permitted).
344  * @param delta the shift amount.
345  *
346  * @return A new range.
347  */
348 public static Range shift(Range base, double delta) {
349 14     return shift(base, delta, false);
350 }
351
352 /**
353  * Shifts the range by the specified amount.
354  *
355  * @param base the base range (<code>>null</code> not permitted).
356  * @param delta the shift amount.
357  * @param allowZeroCrossing a flag that determines whether or not the
358  * bounds of the range are allowed to cross
359  * zero after adjustment.
360  *
361  * @return A new range.
362  */
363 public static Range shift(Range base, double delta,
364                           boolean allowZeroCrossing) {
365 1     ParamChecks.nullNotPermitted(base, "base");
366 13     if (allowZeroCrossing) {
367 16         return new Range(base.getLowerBound() + delta,

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```

368 13         base.getUpperBound() + delta);
369     }
370     else {
371 6         return new Range(shiftWithNoZeroCrossing(base.getLowerBound(),
372 8             delta), shiftWithNoZeroCrossing(base.getUpperBound(),
373 5             delta));
374     }
375 }
376
377 /**
378  * Returns the given value adjusted by delta but
379  * with a check to prevent the result from crossing 0.0.
380  *
381  * @param value the value.
382  * @param delta the adjustment.
383  *
384  * @return The adjusted value.
385  */
386 private static double shiftWithNoZeroCrossing(double value, double delta) {
387 19     if (value > 0.0) {
388 26         return Math.max(value + delta, 0.0);
389     }
390 19     else if (value < 0.0) {
391 26         return Math.min(value + delta, 0.0);
392     }
393     else {
394 19         return value + delta;
395     }
396 }
397
398 /**
399  * Scales the range by the specified factor.
400  *
401  * @param base the base range (null not permitted).
402  * @param factor the scaling factor (must be non-negative).
403  *
404  * @return A new range.
405  *
406  * @since 1.0.9
407  */
408 public static Range scale(Range base, double factor) {
409 1     ParamChecks.nullNotPermitted(base, "base");
410 19     if (factor < 0) {
411 1         throw new IllegalArgumentException("Negative 'factor' argument.");
412     }
413 16     return new Range(base.getLowerBound() * factor,
414 13         base.getUpperBound() * factor);
415 }
416
417 /**
418  * Tests this object for equality with an arbitrary object.
419  *
420  * @param obj the object to test against (null permitted).

```



```

421     *
422     * @return A boolean.
423     */
424     @Override
425     public boolean equals(Object obj) {
426 8         if (!(obj instanceof Range)) {
427 7             return false;
428         }
429         Range range = (Range) obj;
430 18         if (!(this.lower == range.lower)) {
431 7             return false;
432         }
433 18         if (!(this.upper == range.upper)) {
434 7             return false;
435         }
436 8         return true;
437     }
438
439     /**
440     * Returns <code>true</code> if both the lower and upper bounds are
441     * <code>Double.NaN</code>, and <code>false</code> otherwise.
442     *
443     * @return A boolean.
444     *
445     * @since 1.0.18
446     */
447     public boolean isNaNRange() {
448 43         return Double.isNaN(this.lower) && Double.isNaN(this.upper);
449     }
450
451     /**
452     * Returns a hash code.
453     *
454     * @return A hash code.
455     */
456     @Override
457     public int hashCode() {
458         int result;
459         long temp;
460 6         temp = Double.doubleToLongBits(this.lower);
461 19         result = (int) (temp ^ (temp >> 32));
462 6         temp = Double.doubleToLongBits(this.upper);
463 45         result = 29 * result + (int) (temp ^ (temp >> 32));
464 7         return result;
465     }
466
467     /**
468     * Returns a string representation of this Range.
469     *
470     * @return A String "Range[lower,upper]" where lower=lower range and
471     *         upper=upper range.
472     */
473     @Override

```

```

474     public String toString() {
475 22         return ("Range[" + this.lower + "," + this.upper + "]");
476     }
477
478 }

```

## Mutations

1. changed conditional boundary → KILLED
2. negated conditional → KILLED
3. removed conditional - replaced comparison check with false → KILLED
4. removed conditional - replaced comparison check with true → KILLED
5. Negated double local variable number 1 → KILLED
6. Negated double local variable number 3 → KILLED
7. Less or equal to less than → KILLED
8. Less or equal to greater than → KILLED
9. Less or equal to greater or equal → KILLED
- [90](#) 10. Less or equal to equal → KILLED
11. Less or equal to not equal → KILLED
12. Incremented (a++) double local variable number 1 → KILLED
13. Incremented (a++) double local variable number 3 → KILLED
14. Decrementd (a--) double local variable number 1 → KILLED
15. Decrementd (a--) double local variable number 3 → KILLED
16. Incremented (++a) double local variable number 1 → KILLED
17. Incremented (++a) double local variable number 3 → KILLED
18. Decrementd (--a) double local variable number 1 → KILLED
19. Decrementd (--a) double local variable number 3 → KILLED
1. removed call to java/lang/StringBuilder::<init> → SURVIVED
2. removed call to java/lang/StringBuilder::append → SURVIVED
3. removed call to java/lang/StringBuilder::toString → SURVIVED
4. replaced call to java/lang/StringBuilder::append with receiver → SURVIVED
- [91](#) 5. Negated double local variable number 1 → SURVIVED
6. Incremented (a++) double local variable number 1 → SURVIVED
7. Decrementd (a--) double local variable number 1 → SURVIVED
8. Incremented (++a) double local variable number 1 → SURVIVED
9. Decrementd (--a) double local variable number 1 → SURVIVED
1. removed call to java/lang/StringBuilder::append → SURVIVED
2. removed call to java/lang/StringBuilder::append → SURVIVED
3. removed call to java/lang/StringBuilder::append → SURVIVED
4. replaced call to java/lang/StringBuilder::append with receiver → SURVIVED
5. replaced call to java/lang/StringBuilder::append with receiver → SURVIVED
- [92](#) 6. replaced call to java/lang/StringBuilder::append with receiver → SURVIVED
7. Negated double local variable number 3 → SURVIVED
8. Incremented (a++) double local variable number 3 → SURVIVED
9. Decrementd (a--) double local variable number 3 → SURVIVED
10. Incremented (++a) double local variable number 3 → SURVIVED
11. Decrementd (--a) double local variable number 3 → SURVIVED
- [93](#) 1. removed call to java/lang/IllegalArgumentException::<init> → SURVIVED
1. Removed assignment to member variable lower → KILLED
2. Negated double local variable number 1 → KILLED
- [95](#) 3. Incremented (a++) double local variable number 1 → SURVIVED
4. Decrementd (a--) double local variable number 1 → SURVIVED
5. Incremented (++a) double local variable number 1 → KILLED
6. Decrementd (--a) double local variable number 1 → KILLED
1. Removed assignment to member variable upper → KILLED
2. Negated double local variable number 3 → KILLED
- [96](#) 3. Incremented (a++) double local variable number 3 → SURVIVED
4. Decrementd (a--) double local variable number 3 → SURVIVED
5. Incremented (++a) double local variable number 3 → KILLED
6. Decrementd (--a) double local variable number 3 → KILLED
- [105](#) 1. replaced double return with 0.0d for org/jfree/data/Range::getLowerBound → KILLED

- 2. replaced return of double value with  $-(x + 1)$  for  
org/jfree/data/Range::getLowerBound → KILLED
- 3. Negated double field lower → KILLED
- 4. Incremented (a++) double field lower → KILLED
- 5. Decrementd (a--) double field lower → KILLED
- 6. Incremented (++a) double field lower → KILLED
- 7. Decrementd (--a) double fieldlower → KILLED
- 1. replaced double return with 0.0d for org/jfree/data/Range::getUpperBound → KILLED
- 2. replaced return of double value with  $-(x + 1)$  for  
org/jfree/data/Range::getUpperBound → KILLED
- 114 3. Negated double field upper → KILLED
- 4. Incremented (a++) double field upper → KILLED
- 5. Decrementd (a--) double field upper → KILLED
- 6. Incremented (++a) double field upper → KILLED
- 7. Decrementd (--a) double fieldupper → KILLED
- 1. Replaced double subtraction with addition → KILLED
- 2. replaced double return with 0.0d for org/jfree/data/Range::getLength → KILLED
- 3. replaced return of double value with  $-(x + 1)$  for  
org/jfree/data/Range::getLength → KILLED
- 4. Negated double field upper → KILLED
- 5. Negated double field lower → KILLED
- 6. Replaced double operation with first member → KILLED
- 7. Replaced double operation by second member → KILLED
- 8. Replaced double subtraction with addition → KILLED
- 123 9. Replaced double subtraction with multiplication → KILLED
- 10. Replaced double subtraction with division → KILLED
- 11. Replaced double subtraction with modulus → KILLED
- 12. Incremented (a++) double field upper → KILLED
- 13. Incremented (a++) double field lower → KILLED
- 14. Decrementd (a--) double field upper → KILLED
- 15. Decrementd (a--) double field lower → KILLED
- 16. Incremented (++a) double field upper → KILLED
- 17. Incremented (++a) double field lower → KILLED
- 18. Decrementd (--a) double fieldupper → KILLED
- 19. Decrementd (--a) double fieldlower → KILLED
- 132 1. Substituted 2.0 with 1.0 → SURVIVED
- 2. Substituted 2.0 with 1.0 → SURVIVED
- 3. Replaced double division with multiplication → SURVIVED
- 4. Replaced double division with multiplication → SURVIVED
- 5. Replaced double addition with subtraction → SURVIVED
- 6. replaced double return with 0.0d for org/jfree/data/Range::getCentralValue → SURVIVED
- 7. replaced return of double value with  $-(x + 1)$  for  
org/jfree/data/Range::getCentralValue → SURVIVED
- 8. Negated double field lower → SURVIVED
- 9. Negated double field upper → SURVIVED
- 10. Replaced double operation with first member → SURVIVED
- 11. Replaced double operation with first member → SURVIVED
- 12. Replaced double operation with first member → SURVIVED
- 13. Replaced double operation by second member → SURVIVED
- 14. Replaced double operation by second member → SURVIVED
- 15. Replaced double operation by second member → SURVIVED
- 16. Replaced double division with multiplication → SURVIVED
- 17. Replaced double division with multiplication → SURVIVED
- 18. Replaced double addition with subtraction → SURVIVED
- 19. Replaced double division with modulus → SURVIVED
- 20. Replaced double division with modulus → SURVIVED
- 21. Replaced double addition with multiplication → SURVIVED
- 22. Replaced double division with addition → SURVIVED
- 23. Replaced double division with addition → SURVIVED
- 24. Replaced double addition with division → SURVIVED
- 25. Replaced double division with subtraction → SURVIVED
- 26. Replaced double division with subtraction → SURVIVED
- 27. Replaced double addition with modulus → SURVIVED

28. Substituted 2.0 with 1.0 → SURVIVED  
 29. Substituted 2.0 with 1.0 → SURVIVED  
 30. Substituted 2.0 with 0.0 → SURVIVED  
 31. Substituted 2.0 with 0.0 → SURVIVED  
 32. Substituted 2.0 with -1.0 → SURVIVED  
 33. Substituted 2.0 with -1.0 → SURVIVED  
 34. Substituted 2.0 with -2.0 → SURVIVED  
 35. Substituted 2.0 with -2.0 → SURVIVED  
 36. Substituted 2.0 with 3.0 → SURVIVED  
 37. Substituted 2.0 with 3.0 → SURVIVED  
 38. Substituted 2.0 with 1.0 → SURVIVED  
 39. Substituted 2.0 with 1.0 → SURVIVED  
 40. Incremented (a++) double field lower → SURVIVED  
 41. Incremented (a++) double field upper → SURVIVED  
 42. Decrementd (a--) double field lower → SURVIVED  
 43. Decrementd (a--) double field upper → SURVIVED  
 44. Incremented (++a) double field lower → SURVIVED  
 45. Incremented (++a) double field upper → SURVIVED  
 46. Decrementd (--a) double fieldlower → SURVIVED  
 47. Decrementd (--a) double fieldupper → SURVIVED

[144](#) 1. replaced boolean return with false for org/jfree/data/Range::contains → KILLED  
 2. replaced boolean return with true for org/jfree/data/Range::contains → KILLED  
 3. changed conditional boundary → KILLED  
 4. changed conditional boundary → KILLED  
 5. Substituted 1 with 0 → KILLED  
 6. Substituted 0 with 1 → KILLED  
 7. negated conditional → KILLED  
 8. negated conditional → KILLED  
 9. removed conditional - replaced comparison check with false → KILLED  
 10. removed conditional - replaced comparison check with false → KILLED  
 11. removed conditional - replaced comparison check with true → KILLED  
 12. removed conditional - replaced comparison check with true → KILLED  
 13. replaced return of integer sized value with (x == 0 ? 1 : 0) → KILLED  
 14. replaced return of integer sized value with (x == 0 ? 1 : 0) → KILLED  
 15. Negated double local variable number 1 → KILLED  
 16. Negated double field lower → KILLED  
 17. Negated double local variable number 1 → KILLED  
 18. Negated double field upper → KILLED  
 19. Substituted 0 with 1 → KILLED  
 20. Substituted 1 with 0 → KILLED  
 21. Substituted 1 with -1 → SURVIVED  
 22. Substituted 0 with -1 → KILLED  
 23. Substituted 1 with -1 → SURVIVED  
 24. Substituted 1 with 2 → KILLED  
 25. Substituted 0 with 1 → KILLED  
 26. Substituted 1 with 0 → KILLED  
 27. Substituted 0 with -1 → KILLED  
 28. Less than to less or equal → KILLED  
 29. greater than to less than → KILLED  
 30. Less than to greater than → KILLED  
 31. greater than to less or equal → KILLED  
 32. Less than to greater or equal → KILLED  
 33. greater than to greater or equal → KILLED  
 34. Less than to equal → KILLED  
 35. greater than to equal → KILLED  
 36. Less than to not equal → KILLED  
 37. greater than to not equal → KILLED  
 38. Incremented (a++) double local variable number 1 → KILLED  
 39. Incremented (a++) double field lower → KILLED  
 40. Incremented (a++) double local variable number 1 → SURVIVED  
 41. Incremented (a++) double field upper → KILLED  
 42. Decrementd (a--) double local variable number 1 → KILLED  
 43. Decrementd (a--) double field lower → KILLED  
 44. Decrementd (a--) double local variable number 1 → SURVIVED

45. Decrementd (a--) double field upper → KILLED  
 46. Incremented (++a) double local variable number 1 → KILLED  
 47. Incremented (++a) double field lower → KILLED  
 48. Incremented (++a) double local variable number 1 → KILLED  
 49. Incremented (++a) double field upper → KILLED  
 50. Decrementd (--a) double local variable number 1 → KILLED  
 51. Decrementd (--a) double fieldlower → KILLED  
 52. Decrementd (--a) double local variable number 1 → KILLED  
 53. Decrementd (--a) double fieldupper → KILLED
1. changed conditional boundary → SURVIVED  
 2. negated conditional → KILLED  
 3. removed conditional - replaced comparison check with false → KILLED  
 4. removed conditional - replaced comparison check with true → KILLED  
 5. Negated double local variable number 1 → KILLED  
 6. Negated double field lower → SURVIVED  
 7. greater than to less than → KILLED  
 8. greater than to less or equal → KILLED  
 9. greater than to greater or equal → SURVIVED  
 10. greater than to equal → KILLED  
 11. greater than to not equal → KILLED  
 12. Incremented (a++) double local variable number 1 → KILLED  
 13. Incremented (a++) double field lower → KILLED  
 14. Decrementd (a--) double local variable number 1 → KILLED  
 15. Decrementd (a--) double field lower → KILLED  
 16. Incremented (++a) double local variable number 1 → KILLED  
 17. Incremented (++a) double field lower → KILLED  
 18. Decrementd (--a) double local variable number 1 → KILLED  
 19. Decrementd (--a) double fieldlower → KILLED
1. replaced boolean return with false for org/jfree/data/Range::intersects → KILLED  
 2. replaced boolean return with true for org/jfree/data/Range::intersects → KILLED  
 3. changed conditional boundary → KILLED  
 4. Substituted 1 with 0 → KILLED  
 5. Substituted 0 with 1 → KILLED  
 6. negated conditional → KILLED  
 7. removed conditional - replaced comparison check with false → KILLED  
 8. removed conditional - replaced comparison check with true → KILLED  
 9. replaced return of integer sized value with (x == 0 ? 1 : 0) → KILLED  
 10. replaced return of integer sized value with (x == 0 ? 1 : 0) → KILLED  
 11. Negated double local variable number 3 → KILLED  
 12. Negated double field lower → SURVIVED  
 13. Substituted 0 with 1 → KILLED  
 14. Substituted 1 with 0 → KILLED  
 15. Substituted 1 with -1 → SURVIVED  
 16. Substituted 0 with -1 → KILLED  
 17. Substituted 1 with -1 → SURVIVED  
 18. Substituted 1 with 2 → KILLED  
 19. Substituted 0 with 1 → KILLED  
 20. Substituted 1 with 0 → KILLED  
 21. Substituted 0 with -1 → KILLED  
 22. Less or equal to less than → KILLED  
 23. Less or equal to greater than → KILLED  
 24. Less or equal to greater or equal → KILLED  
 25. Less or equal to equal → KILLED  
 26. Less or equal to not equal → KILLED  
 27. Incremented (a++) double local variable number 3 → SURVIVED  
 28. Incremented (a++) double field lower → KILLED  
 29. Decrementd (a--) double local variable number 3 → SURVIVED  
 30. Decrementd (a--) double field lower → KILLED  
 31. Incremented (++a) double local variable number 3 → KILLED  
 32. Incremented (++a) double field lower → KILLED  
 33. Decrementd (--a) double local variable number 3 → KILLED  
 34. Decrementd (--a) double fieldlower → KILLED
1. replaced boolean return with false for org/jfree/data/Range::intersects → KILLED

2. replaced boolean return with true for org/jfree/data/Range::intersects → KILLED  
 3. changed conditional boundary → KILLED  
 4. changed conditional boundary → SURVIVED  
 5. Substituted 1 with 0 → KILLED  
 6. Substituted 0 with 1 → KILLED  
 7. negated conditional → KILLED  
 8. negated conditional → KILLED  
 9. removed conditional - replaced comparison check with false → KILLED  
 10. removed conditional - replaced comparison check with false → KILLED  
 11. removed conditional - replaced comparison check with true → KILLED  
 12. removed conditional - replaced comparison check with true → SURVIVED  
 13. replaced return of integer sized value with (x == 0 ? 1 : 0) → KILLED  
 14. replaced return of integer sized value with (x == 0 ? 1 : 0) → KILLED  
 15. Negated double local variable number 1 → KILLED  
 16. Negated double field upper → KILLED  
 17. Negated double local variable number 3 → KILLED  
 18. Negated double local variable number 1 → SURVIVED  
 19. Substituted 0 with 1 → KILLED  
 20. Substituted 1 with 0 → KILLED  
 21. Substituted 1 with -1 → SURVIVED  
 22. Substituted 0 with -1 → KILLED  
 23. Substituted 1 with -1 → SURVIVED  
 24. Substituted 1 with 2 → KILLED  
 25. Substituted 0 with 1 → KILLED  
 26. Substituted 1 with 0 → KILLED  
 27. Substituted 0 with -1 → KILLED  
 28. greater or equal to less than → KILLED  
 29. Less than to less or equal → SURVIVED  
 30. greater or equal to less or equal → KILLED  
 31. Less than to greater than → KILLED  
 32. greater or equal to greater than → KILLED  
 33. Less than to greater or equal → KILLED  
 34. greater or equal to equal → KILLED  
 35. Less than to equal → SURVIVED  
 36. greater or equal to not equal → KILLED  
 37. Less than to not equal → KILLED  
 38. Incremented (a++) double local variable number 1 → KILLED  
 39. Incremented (a++) double field upper → KILLED  
 40. Incremented (a++) double local variable number 3 → SURVIVED  
 41. Incremented (a++) double local variable number 1 → SURVIVED  
 42. Decrementd (a--) double local variable number 1 → SURVIVED  
 43. Decrementd (a--) double field upper → KILLED  
 44. Decrementd (a--) double local variable number 3 → SURVIVED  
 45. Decrementd (a--) double local variable number 1 → SURVIVED  
 46. Incremented (++) double local variable number 1 → KILLED  
 47. Incremented (++) double field upper → KILLED  
 48. Incremented (++) double local variable number 3 → SURVIVED  
 49. Incremented (++) double local variable number 1 → KILLED  
 50. Decrementd (--a) double local variable number 1 → KILLED  
 51. Decrementd (--a) double fieldupper → KILLED  
 52. Decrementd (--a) double local variable number 3 → KILLED  
 53. Decrementd (--a) double local variable number 1 → SURVIVED

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1. replaced boolean return with false for org/jfree/data/Range::intersects → NO\_COVERAGE  
 2. replaced boolean return with true for org/jfree/data/Range::intersects → NO\_COVERAGE  
 3. removed call to org/jfree/data/Range::getLowerBound → NO\_COVERAGE  
 4. removed call to org/jfree/data/Range::getUpperBound → NO\_COVERAGE  
 5. removed call to org/jfree/data/Range::intersects → NO\_COVERAGE  
 6. replaced return of integer sized value with (x == 0 ? 1 : 0) → NO\_COVERAGE

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1. Negated double local variable number 1 → KILLED  
 2. Incremented (a++) double local variable number 1 → KILLED  
 3. Decrementd (a--) double local variable number 1 → KILLED  
 4. Incremented (++) double local variable number 1 → KILLED  
 5. Decrementd (--a) double local variable number 1 → KILLED



- [189](#)
1. negated conditional → KILLED
  2. removed call to org/jfree/data/Range::contains → SURVIVED
  3. removed conditional - replaced equality check with false → KILLED
  4. removed conditional - replaced equality check with true → SURVIVED
  5. Negated double local variable number 1 → KILLED
  6. not equal to less than → SURVIVED
  7. not equal to less or equal → KILLED
  8. not equal to greater than → SURVIVED
  9. not equal to greater or equal → KILLED
  10. not equal to equal → KILLED
  11. Incremented (a++) double local variable number 1 → KILLED
  12. Decrementd (a--) double local variable number 1 → KILLED
  13. Incremented (++a) double local variable number 1 → KILLED
  14. Decrementd (--a) double local variable number 1 → KILLED
- [190](#)
1. changed conditional boundary → SURVIVED
  2. negated conditional → KILLED
  3. removed conditional - replaced comparison check with false → KILLED
  4. removed conditional - replaced comparison check with true → KILLED
  5. Negated double local variable number 1 → KILLED
  6. Negated double field upper → KILLED
  7. Less or equal to less than → SURVIVED
  8. Less or equal to greater than → KILLED
  9. Less or equal to greater or equal → KILLED
  10. Less or equal to equal → KILLED
  11. Less or equal to not equal → KILLED
  12. Incremented (a++) double local variable number 1 → KILLED
  13. Incremented (a++) double field upper → KILLED
  14. Decrementd (a--) double local variable number 1 → SURVIVED
  15. Decrementd (a--) double field upper → KILLED
  16. Incremented (++a) double local variable number 1 → KILLED
  17. Incremented (++a) double field upper → KILLED
  18. Decrementd (--a) double local variable number 1 → KILLED
  19. Decrementd (--a) double fieldupper → KILLED
- [191](#)
1. Negated double field upper → KILLED
  2. Incremented (a++) double field upper → KILLED
  3. Decrementd (a--) double field upper → KILLED
  4. Incremented (++a) double field upper → KILLED
  5. Decrementd (--a) double fieldupper → KILLED
  1. changed conditional boundary → SURVIVED
  2. negated conditional → KILLED
  3. removed conditional - replaced comparison check with false → KILLED
  4. removed conditional - replaced comparison check with true → KILLED
  5. Negated double local variable number 1 → KILLED
  6. Negated double field lower → KILLED
  7. greater or equal to less than → KILLED
  8. greater or equal to less or equal → KILLED
  9. greater or equal to greater than → SURVIVED
- [193](#)
10. greater or equal to equal → KILLED
  11. greater or equal to not equal → KILLED
  12. Incremented (a++) double local variable number 1 → SURVIVED
  13. Incremented (a++) double field lower → KILLED
  14. Decrementd (a--) double local variable number 1 → SURVIVED
  15. Decrementd (a--) double field lower → KILLED
  16. Incremented (++a) double local variable number 1 → KILLED
  17. Incremented (++a) double field lower → KILLED
  18. Decrementd (--a) double local variable number 1 → SURVIVED
  19. Decrementd (--a) double fieldlower → KILLED
- [194](#)
1. Negated double field lower → KILLED
  2. Incremented (a++) double field lower → KILLED
  3. Decrementd (a--) double field lower → KILLED
  4. Incremented (++a) double field lower → KILLED
  5. Decrementd (--a) double fieldlower → KILLED
- [197](#)
1. replaced double return with 0.0d for org/jfree/data/Range::constrain → KILLED

	2. replaced return of double value with $-(x + 1)$ for <code>org/jfree/data/Range::constrain</code> → KILLED
	3. Negated double local variable number 3 → KILLED
	4. Incremented ( <code>a++</code> ) double local variable number 3 → SURVIVED
	5. Decrementd ( <code>a--</code> ) double local variable number 3 → SURVIVED
	6. Incremented ( <code>++a</code> ) double local variable number 3 → KILLED
	7. Decrementd ( <code>--a</code> ) double local variable number 3 → KILLED
	1. negated conditional → KILLED
<a href="#">217</a>	2. removed conditional - replaced equality check with false → KILLED
	3. removed conditional - replaced equality check with true → KILLED
	4. not equal to equal → KILLED
<a href="#">218</a>	1. replaced return value with null for <code>org/jfree/data/Range::combine</code> → KILLED
	2. mutated return of Object value for <code>org/jfree/data/Range::combine</code> to ( if <code>(x != null)</code> null else throw new RuntimeException ) → KILLED
	1. negated conditional → KILLED
<a href="#">220</a>	2. removed conditional - replaced equality check with false → KILLED
	3. removed conditional - replaced equality check with true → KILLED
	4. not equal to equal → KILLED
<a href="#">221</a>	1. replaced return value with null for <code>org/jfree/data/Range::combine</code> → KILLED
	2. mutated return of Object value for <code>org/jfree/data/Range::combine</code> to ( if <code>(x != null)</code> null else throw new RuntimeException ) → KILLED
	1. replaced call to <code>java/lang/Math::min</code> with argument → KILLED
<a href="#">223</a>	2. removed call to <code>org/jfree/data/Range::getLowerBound</code> → KILLED
	3. removed call to <code>org/jfree/data/Range::getLowerBound</code> → KILLED
	4. removed call to <code>java/lang/Math::min</code> → KILLED
	1. replaced call to <code>java/lang/Math::max</code> with argument → KILLED
<a href="#">224</a>	2. removed call to <code>org/jfree/data/Range::getUpperBound</code> → KILLED
	3. removed call to <code>org/jfree/data/Range::getUpperBound</code> → KILLED
	4. removed call to <code>java/lang/Math::max</code> → KILLED
	1. removed call to <code>org/jfree/data/Range::&lt;init&gt;</code> → KILLED
	2. replaced return value with null for <code>org/jfree/data/Range::combine</code> → KILLED
	3. mutated return of Object value for <code>org/jfree/data/Range::combine</code> to ( if <code>(x != null)</code> null else throw new RuntimeException ) → KILLED
	4. Negated double local variable number 2 → KILLED
	5. Negated double local variable number 4 → KILLED
<a href="#">225</a>	6. Incremented ( <code>a++</code> ) double local variable number 2 → SURVIVED
	7. Incremented ( <code>a++</code> ) double local variable number 4 → SURVIVED
	8. Decrementd ( <code>a--</code> ) double local variable number 2 → SURVIVED
	9. Decrementd ( <code>a--</code> ) double local variable number 4 → SURVIVED
	10. Incremented ( <code>++a</code> ) double local variable number 2 → KILLED
	11. Incremented ( <code>++a</code> ) double local variable number 4 → KILLED
	12. Decrementd ( <code>--a</code> ) double local variable number 2 → KILLED
	13. Decrementd ( <code>--a</code> ) double local variable number 4 → KILLED
	1. negated conditional → KILLED
<a href="#">241</a>	2. removed conditional - replaced equality check with false → KILLED
	3. removed conditional - replaced equality check with true → KILLED
	4. not equal to equal → KILLED
	1. negated conditional → KILLED
	2. negated conditional → KILLED
	3. removed call to <code>org/jfree/data/Range::isNaNRange</code> → KILLED
	4. removed conditional - replaced equality check with false → KILLED
	5. removed conditional - replaced equality check with false → KILLED
<a href="#">242</a>	6. removed conditional - replaced equality check with true → KILLED
	7. removed conditional - replaced equality check with true → KILLED
	8. equal to less than → KILLED
	9. equal to less or equal → SURVIVED
	10. equal to greater than → KILLED
	11. equal to greater or equal → KILLED
	12. equal to not equal → KILLED
	13. equal to not equal → KILLED
<a href="#">243</a>	1. mutated return of Object value for <code>org/jfree/data/Range::combineIgnoringNaN</code> to ( if <code>(x != null)</code> null else throw new RuntimeException ) → KILLED
<a href="#">245</a>	1. replaced return value with null for <code>org/jfree/data/Range::combineIgnoringNaN</code> → KILLED



2. mutated return of Object value for org/jfree/data/Range::combineIgnoringNaN to ( if (x != null) null else throw new RuntimeException ) → KILLED

[247](#) 1. negated conditional → KILLED  
2. removed conditional - replaced equality check with false → KILLED  
3. removed conditional - replaced equality check with true → KILLED  
4. not equal to equal → KILLED  
1. negated conditional → KILLED  
2. removed call to org/jfree/data/Range::isNaNRange → SURVIVED  
3. removed conditional - replaced equality check with false → SURVIVED  
4. removed conditional - replaced equality check with true → KILLED

[248](#) 5. equal to less than → KILLED  
6. equal to less or equal → SURVIVED  
7. equal to greater than → KILLED  
8. equal to greater or equal → SURVIVED  
9. equal to not equal → KILLED

[249](#) 1. mutated return of Object value for org/jfree/data/Range::combineIgnoringNaN to ( if (x != null) null else throw new RuntimeException ) → NO\_COVERAGE

[251](#) 1. replaced return value with null for org/jfree/data/Range::combineIgnoringNaN → KILLED  
2. mutated return of Object value for org/jfree/data/Range::combineIgnoringNaN to ( if (x != null) null else throw new RuntimeException ) → KILLED

[253](#) 1. replaced call to org/jfree/data/Range::min with argument → KILLED  
2. removed call to org/jfree/data/Range::getLowerBound → KILLED  
3. removed call to org/jfree/data/Range::getLowerBound → KILLED  
4. removed call to org/jfree/data/Range::min → KILLED

[254](#) 1. replaced call to org/jfree/data/Range::max with argument → KILLED  
2. removed call to org/jfree/data/Range::getUpperBound → KILLED  
3. removed call to org/jfree/data/Range::getUpperBound → KILLED  
4. removed call to org/jfree/data/Range::max → KILLED

1. negated conditional → SURVIVED  
2. negated conditional → NO\_COVERAGE  
3. removed call to java/lang/Double::isNaN → SURVIVED  
4. removed call to java/lang/Double::isNaN → NO\_COVERAGE  
5. removed conditional - replaced equality check with false → SURVIVED  
6. removed conditional - replaced equality check with false → NO\_COVERAGE  
7. removed conditional - replaced equality check with true → SURVIVED  
8. removed conditional - replaced equality check with true → NO\_COVERAGE  
9. Negated double local variable number 2 → SURVIVED  
10. Negated double local variable number 4 → NO\_COVERAGE  
11. equal to less than → SURVIVED  
12. equal to less than → NO\_COVERAGE  
13. equal to less or equal → SURVIVED  
14. equal to less or equal → NO\_COVERAGE

[255](#) 15. equal to greater than → SURVIVED  
16. equal to greater than → NO\_COVERAGE  
17. equal to greater or equal → SURVIVED  
18. equal to greater or equal → NO\_COVERAGE  
19. equal to not equal → SURVIVED  
20. equal to not equal → NO\_COVERAGE  
21. Incremented (a++) double local variable number 2 → KILLED  
22. Incremented (a++) double local variable number 4 → NO\_COVERAGE  
23. Decrementd (a--) double local variable number 2 → KILLED  
24. Decrementd (a--) double local variable number 4 → NO\_COVERAGE  
25. Incremented (a++) double local variable number 2 → KILLED  
26. Incremented (a++) double local variable number 4 → NO\_COVERAGE  
27. Decrementd (--a) double local variable number 2 → KILLED  
28. Decrementd (--a) double local variable number 4 → NO\_COVERAGE

[256](#) 1. mutated return of Object value for org/jfree/data/Range::combineIgnoringNaN to ( if (x != null) null else throw new RuntimeException ) → NO\_COVERAGE

[258](#) 1. removed call to org/jfree/data/Range::<init> → KILLED  
2. replaced return value with null for org/jfree/data/Range::combineIgnoringNaN → KILLED  
3. mutated return of Object value for org/jfree/data/Range::combineIgnoringNaN to ( if (x != null) null else throw new RuntimeException ) → KILLED

4. Negated double local variable number 2 → KILLED  
 5. Negated double local variable number 4 → KILLED  
 6. Incremented (a++) double local variable number 2 → SURVIVED  
 7. Incremented (a++) double local variable number 4 → SURVIVED  
 8. Decrementd (a--) double local variable number 2 → SURVIVED  
 9. Decrementd (a--) double local variable number 4 → SURVIVED  
 10. Incremented (++a) double local variable number 2 → KILLED  
 11. Incremented (++a) double local variable number 4 → KILLED  
 12. Decrementd (--a) double local variable number 2 → KILLED  
 13. Decrementd (--a) double local variable number 4 → KILLED  
 1. negated conditional → KILLED  
 2. removed call to java/lang/Double::isNaN → SURVIVED  
 3. removed conditional - replaced equality check with false → SURVIVED  
 4. removed conditional - replaced equality check with true → KILLED  
 5. Negated double local variable number 0 → SURVIVED  
 6. equal to less than → KILLED  
 7. equal to less or equal → SURVIVED  
 8. equal to greater than → KILLED  
 9. equal to greater or equal → SURVIVED  
 10. equal to not equal → KILLED  
 11. Incremented (a++) double local variable number 0 → KILLED  
 12. Decrementd (a--) double local variable number 0 → KILLED  
 13. Incremented (++a) double local variable number 0 → KILLED  
 14. Decrementd (--a) double local variable number 0 → KILLED  
 1. replaced double return with 0.0d for org/jfree/data/Range::min → NO\_COVERAGE  
 2. replaced return of double value with -(x + 1) for org/jfree/data/Range::min → NO\_COVERAGE  
 3. Negated double local variable number 2 → NO\_COVERAGE  
 4. Incremented (a++) double local variable number 2 → NO\_COVERAGE  
 5. Decrementd (a--) double local variable number 2 → NO\_COVERAGE  
 6. Incremented (++a) double local variable number 2 → NO\_COVERAGE  
 7. Decrementd (--a) double local variable number 2 → NO\_COVERAGE  
 1. negated conditional → KILLED  
 2. removed call to java/lang/Double::isNaN → KILLED  
 3. removed conditional - replaced equality check with false → KILLED  
 4. removed conditional - replaced equality check with true → KILLED  
 5. Negated double local variable number 2 → SURVIVED  
 6. equal to less than → KILLED  
 7. equal to less or equal → SURVIVED  
 8. equal to greater than → KILLED  
 9. equal to greater or equal → KILLED  
 10. equal to not equal → KILLED  
 11. Incremented (a++) double local variable number 2 → KILLED  
 12. Decrementd (a--) double local variable number 2 → KILLED  
 13. Incremented (++a) double local variable number 2 → KILLED  
 14. Decrementd (--a) double local variable number 2 → KILLED  
 1. replaced double return with 0.0d for org/jfree/data/Range::min → KILLED  
 2. replaced return of double value with -(x + 1) for org/jfree/data/Range::min → KILLED  
 3. Negated double local variable number 0 → KILLED  
 4. Incremented (a++) double local variable number 0 → SURVIVED  
 5. Decrementd (a--) double local variable number 0 → SURVIVED  
 6. Incremented (++a) double local variable number 0 → KILLED  
 7. Decrementd (--a) double local variable number 0 → KILLED  
 1. replaced call to java/lang/Math::min with argument → KILLED  
 2. removed call to java/lang/Math::min → KILLED  
 3. replaced double return with 0.0d for org/jfree/data/Range::min → KILLED  
 4. replaced return of double value with -(x + 1) for org/jfree/data/Range::min → KILLED  
 5. Negated double local variable number 0 → KILLED  
 6. Negated double local variable number 2 → KILLED  
 7. Incremented (a++) double local variable number 0 → SURVIVED  
 8. Incremented (a++) double local variable number 2 → SURVIVED  
 9. Decrementd (a--) double local variable number 0 → SURVIVED  
 10. Decrementd (a--) double local variable number 2 → SURVIVED

11. Incremented (++a) double local variable number 0 → KILLED  
 12. Incremented (++a) double local variable number 2 → KILLED  
 13. Decrementd (--a) double local variable number 0 → KILLED  
 14. Decrementd (--a) double local variable number 2 → KILLED  
 1. negated conditional → KILLED  
 2. removed call to java/lang/Double::isNaN → KILLED  
 3. removed conditional - replaced equality check with false → KILLED  
 4. removed conditional - replaced equality check with true → KILLED  
 5. Negated double local variable number 0 → SURVIVED  
 6. equal to less than → KILLED  
 7. equal to less or equal → SURVIVED  
 8. equal to greater than → KILLED  
 9. equal to greater or equal → KILLED  
 10. equal to not equal → KILLED  
 11. Incremented (a++) double local variable number 0 → KILLED  
 12. Decrementd (a--) double local variable number 0 → KILLED  
 13. Incremented (++a) double local variable number 0 → KILLED  
 14. Decrementd (--a) double local variable number 0 → KILLED  
 1. replaced double return with 0.0d for org/jfree/data/Range::max → KILLED  
 2. replaced return of double value with -(x + 1) for org/jfree/data/Range::max → KILLED  
 3. Negated double local variable number 2 → KILLED  
 4. Incremented (a++) double local variable number 2 → SURVIVED  
 5. Decrementd (a--) double local variable number 2 → SURVIVED  
 6. Incremented (++a) double local variable number 2 → KILLED  
 7. Decrementd (--a) double local variable number 2 → KILLED  
 1. negated conditional → KILLED  
 2. removed call to java/lang/Double::isNaN → KILLED  
 3. removed conditional - replaced equality check with false → KILLED  
 4. removed conditional - replaced equality check with true → KILLED  
 5. Negated double local variable number 2 → SURVIVED  
 6. equal to less than → KILLED  
 7. equal to less or equal → SURVIVED  
 8. equal to greater than → KILLED  
 9. equal to greater or equal → KILLED  
 10. equal to not equal → KILLED  
 11. Incremented (a++) double local variable number 2 → KILLED  
 12. Decrementd (a--) double local variable number 2 → KILLED  
 13. Incremented (++a) double local variable number 2 → KILLED  
 14. Decrementd (--a) double local variable number 2 → KILLED  
 1. replaced double return with 0.0d for org/jfree/data/Range::max → KILLED  
 2. replaced return of double value with -(x + 1) for org/jfree/data/Range::max → KILLED  
 3. Negated double local variable number 0 → KILLED  
 4. Incremented (a++) double local variable number 0 → SURVIVED  
 5. Decrementd (a--) double local variable number 0 → SURVIVED  
 6. Incremented (++a) double local variable number 0 → KILLED  
 7. Decrementd (--a) double local variable number 0 → KILLED  
 1. replaced call to java/lang/Math::max with argument → KILLED  
 2. removed call to java/lang/Math::max → KILLED  
 3. replaced double return with 0.0d for org/jfree/data/Range::max → KILLED  
 4. replaced return of double value with -(x + 1) for org/jfree/data/Range::max → KILLED  
 5. Negated double local variable number 0 → KILLED  
 6. Negated double local variable number 2 → KILLED  
 7. Incremented (a++) double local variable number 0 → SURVIVED  
 8. Incremented (a++) double local variable number 2 → SURVIVED  
 9. Decrementd (a--) double local variable number 0 → SURVIVED  
 10. Decrementd (a--) double local variable number 2 → SURVIVED  
 11. Incremented (++a) double local variable number 0 → KILLED  
 12. Incremented (++a) double local variable number 2 → KILLED  
 13. Decrementd (--a) double local variable number 0 → KILLED  
 14. Decrementd (--a) double local variable number 2 → KILLED  
 1. negated conditional → KILLED  
 2. removed conditional - replaced equality check with false → SURVIVED

3. removed conditional - replaced equality check with true → KILLED  
 4. not equal to equal → KILLED

1. removed call to org/jfree/data/Range::<init> → NO\_COVERAGE  
 2. replaced return value with null for org/jfree/data/Range::expandToInclude → NO\_COVERAGE  
 3. mutated return of Object value for org/jfree/data/Range::expandToInclude to ( if (x != null) null else throw new RuntimeException ) → NO\_COVERAGE  
 4. Negated double local variable number 1 → NO\_COVERAGE  
 5. Negated double local variable number 1 → NO\_COVERAGE

[303](#) 6. Incremented (a++) double local variable number 1 → NO\_COVERAGE  
 7. Incremented (a++) double local variable number 1 → NO\_COVERAGE  
 8. Decrementd (a--) double local variable number 1 → NO\_COVERAGE  
 9. Decrementd (a--) double local variable number 1 → NO\_COVERAGE  
 10. Incremented (++) double local variable number 1 → NO\_COVERAGE  
 11. Incremented (++) double local variable number 1 → NO\_COVERAGE  
 12. Decrementd (--a) double local variable number 1 → NO\_COVERAGE  
 13. Decrementd (--a) double local variable number 1 → NO\_COVERAGE

1. changed conditional boundary → SURVIVED  
 2. negated conditional → KILLED  
 3. removed call to org/jfree/data/Range::getLowerBound → KILLED  
 4. removed conditional - replaced comparison check with false → KILLED  
 5. removed conditional - replaced comparison check with true → KILLED  
 6. Negated double local variable number 1 → SURVIVED

[305](#) 7. greater or equal to less than → KILLED  
 8. greater or equal to less or equal → KILLED  
 9. greater or equal to greater than → SURVIVED  
 10. greater or equal to equal → KILLED  
 11. greater or equal to not equal → KILLED  
 12. Incremented (a++) double local variable number 1 → KILLED  
 13. Decrementd (a--) double local variable number 1 → KILLED  
 14. Incremented (++) double local variable number 1 → KILLED  
 15. Decrementd (--a) double local variable number 1 → KILLED

1. removed call to org/jfree/data/Range::<init> → KILLED  
 2. removed call to org/jfree/data/Range::getUpperBound → KILLED  
 3. replaced return value with null for org/jfree/data/Range::expandToInclude → KILLED

[306](#) 4. mutated return of Object value for org/jfree/data/Range::expandToInclude to ( if (x != null) null else throw new RuntimeException ) → KILLED  
 5. Negated double local variable number 1 → SURVIVED  
 6. Incremented (a++) double local variable number 1 → SURVIVED  
 7. Decrementd (a--) double local variable number 1 → SURVIVED  
 8. Incremented (++) double local variable number 1 → KILLED  
 9. Decrementd (--a) double local variable number 1 → KILLED

1. changed conditional boundary → SURVIVED  
 2. negated conditional → KILLED  
 3. removed call to org/jfree/data/Range::getUpperBound → SURVIVED  
 4. removed conditional - replaced comparison check with false → SURVIVED  
 5. removed conditional - replaced comparison check with true → KILLED  
 6. Negated double local variable number 1 → SURVIVED

[308](#) 7. Less or equal to less than → SURVIVED  
 8. Less or equal to greater than → KILLED  
 9. Less or equal to greater or equal → KILLED  
 10. Less or equal to equal → KILLED  
 11. Less or equal to not equal → SURVIVED  
 12. Incremented (a++) double local variable number 1 → SURVIVED  
 13. Decrementd (a--) double local variable number 1 → SURVIVED  
 14. Incremented (++) double local variable number 1 → SURVIVED  
 15. Decrementd (--a) double local variable number 1 → SURVIVED

[309](#) 1. removed call to org/jfree/data/Range::<init> → NO\_COVERAGE  
 2. removed call to org/jfree/data/Range::getLowerBound → NO\_COVERAGE  
 3. replaced return value with null for org/jfree/data/Range::expandToInclude → NO\_COVERAGE  
 4. mutated return of Object value for org/jfree/data/Range::expandToInclude to ( if (x != null) null else throw new RuntimeException ) → NO\_COVERAGE  
 5. Negated double local variable number 1 → NO\_COVERAGE

6. Incremented (a++) double local variable number 1 → NO\_COVERAGE  
 7. Decrementd (a--) double local variable number 1 → NO\_COVERAGE  
 8. Incremented (++a) double local variable number 1 → NO\_COVERAGE  
 9. Decrementd (--a) double local variable number 1 → NO\_COVERAGE

[312](#) 1. replaced return value with null for org/jfree/data/Range::expandToInclude → KILLED  
 2. mutated return of Object value for org/jfree/data/Range::expandToInclude to ( if (x != null) null else throw new RuntimeException ) → KILLED

[329](#) 1. removed call to org/jfree/chart/util/ParamChecks::nullNotPermitted → SURVIVED

[330](#) 1. removed call to org/jfree/data/Range::getLength → KILLED

1. Replaced double multiplication with division → KILLED  
 2. Replaced double subtraction with addition → KILLED  
 3. removed call to org/jfree/data/Range::getLowerBound → SURVIVED  
 4. Negated double local variable number 5 → KILLED  
 5. Negated double local variable number 1 → KILLED  
 6. Replaced double operation with first member → KILLED  
 7. Replaced double operation with first member → KILLED  
 8. Replaced double operation by second member → KILLED  
 9. Replaced double operation by second member → KILLED  
 10. Replaced double multiplication with division → KILLED  
 11. Replaced double subtraction with addition → KILLED  
 12. Replaced double multiplication with modulus → KILLED

[331](#) 13. Replaced double subtraction with multiplication → KILLED  
 14. Replaced double multiplication with addition → KILLED  
 15. Replaced double subtraction with division → KILLED  
 16. Replaced double multiplication with subtraction → KILLED  
 17. Replaced double subtraction with modulus → KILLED  
 18. Incremented (a++) double local variable number 5 → KILLED  
 19. Incremented (a++) double local variable number 1 → SURVIVED  
 20. Decrementd (a--) double local variable number 5 → KILLED  
 21. Decrementd (a--) double local variable number 1 → SURVIVED  
 22. Incremented (++a) double local variable number 5 → KILLED  
 23. Incremented (++a) double local variable number 1 → KILLED  
 24. Decrementd (--a) double local variable number 5 → KILLED  
 25. Decrementd (--a) double local variable number 1 → KILLED

1. Replaced double multiplication with division → KILLED  
 2. Replaced double addition with subtraction → KILLED  
 3. removed call to org/jfree/data/Range::getUpperBound → KILLED  
 4. Negated double local variable number 5 → KILLED  
 5. Negated double local variable number 3 → KILLED  
 6. Replaced double operation with first member → KILLED  
 7. Replaced double operation with first member → KILLED  
 8. Replaced double operation by second member → KILLED  
 9. Replaced double operation by second member → KILLED  
 10. Replaced double multiplication with division → KILLED  
 11. Replaced double addition with subtraction → KILLED  
 12. Replaced double multiplication with modulus → KILLED

[332](#) 13. Replaced double addition with multiplication → KILLED  
 14. Replaced double multiplication with addition → KILLED  
 15. Replaced double addition with division → KILLED  
 16. Replaced double multiplication with subtraction → KILLED  
 17. Replaced double addition with modulus → KILLED  
 18. Incremented (a++) double local variable number 5 → SURVIVED  
 19. Incremented (a++) double local variable number 3 → SURVIVED  
 20. Decrementd (a--) double local variable number 5 → SURVIVED  
 21. Decrementd (a--) double local variable number 3 → SURVIVED  
 22. Incremented (++a) double local variable number 5 → KILLED  
 23. Incremented (++a) double local variable number 3 → KILLED  
 24. Decrementd (--a) double local variable number 5 → KILLED  
 25. Decrementd (--a) double local variable number 3 → KILLED

[333](#) 1. changed conditional boundary → SURVIVED  
 2. negated conditional → KILLED  
 3. removed conditional - replaced comparison check with false → KILLED  
 4. removed conditional - replaced comparison check with true → KILLED



5. Negated double local variable number 7 → KILLED  
 6. Negated double local variable number 9 → KILLED  
 7. Less or equal to less than → SURVIVED  
 8. Less or equal to greater than → KILLED  
 9. Less or equal to greater or equal → KILLED  
 10. Less or equal to equal → KILLED  
 11. Less or equal to not equal → KILLED  
 12. Incremented (a++) double local variable number 7 → KILLED  
 13. Incremented (a++) double local variable number 9 → KILLED  
 14. Decrementd (a--) double local variable number 7 → KILLED  
 15. Decrementd (a--) double local variable number 9 → KILLED  
 16. Incremented (++a) double local variable number 7 → KILLED  
 17. Incremented (++a) double local variable number 9 → KILLED  
 18. Decrementd (--a) double local variable number 7 → KILLED  
 19. Decrementd (--a) double local variable number 9 → KILLED  
 1. Substituted 2.0 with 1.0 → KILLED  
 2. Substituted 2.0 with 1.0 → KILLED  
 3. Replaced double division with multiplication → KILLED  
 4. Replaced double division with multiplication → KILLED  
 5. Replaced double addition with subtraction → KILLED  
 6. Negated double local variable number 7 → KILLED  
 7. Negated double local variable number 9 → KILLED  
 8. Replaced double operation with first member → KILLED  
 9. Replaced double operation with first member → KILLED  
 10. Replaced double operation with first member → KILLED  
 11. Replaced double operation by second member → KILLED  
 12. Replaced double operation by second member → KILLED  
 13. Replaced double operation by second member → KILLED  
 14. Replaced double division with multiplication → KILLED  
 15. Replaced double division with multiplication → KILLED  
 16. Replaced double addition with subtraction → KILLED  
 17. Replaced double division with modulus → KILLED  
 18. Replaced double division with modulus → KILLED  
 19. Replaced double addition with multiplication → KILLED  
 20. Replaced double division with addition → KILLED  
 21. Replaced double division with addition → KILLED  
 22. Replaced double addition with division → KILLED  
 334 23. Replaced double division with subtraction → KILLED  
 24. Replaced double division with subtraction → KILLED  
 25. Replaced double addition with modulus → KILLED  
 26. Substituted 2.0 with 1.0 → KILLED  
 27. Substituted 2.0 with 1.0 → KILLED  
 28. Substituted 2.0 with 0.0 → KILLED  
 29. Substituted 2.0 with 0.0 → KILLED  
 30. Substituted 2.0 with -1.0 → KILLED  
 31. Substituted 2.0 with -1.0 → KILLED  
 32. Substituted 2.0 with -2.0 → KILLED  
 33. Substituted 2.0 with -2.0 → KILLED  
 34. Substituted 2.0 with 3.0 → KILLED  
 35. Substituted 2.0 with 3.0 → KILLED  
 36. Substituted 2.0 with 1.0 → KILLED  
 37. Substituted 2.0 with 1.0 → KILLED  
 38. Incremented (a++) double local variable number 7 → SURVIVED  
 39. Incremented (a++) double local variable number 9 → SURVIVED  
 40. Decrementd (a--) double local variable number 7 → SURVIVED  
 41. Decrementd (a--) double local variable number 9 → SURVIVED  
 42. Incremented (++a) double local variable number 7 → KILLED  
 43. Incremented (++a) double local variable number 9 → KILLED  
 44. Decrementd (--a) double local variable number 7 → KILLED  
 45. Decrementd (--a) double local variable number 9 → KILLED  
 1. Negated double local variable number 7 → KILLED  
 335 2. Incremented (a++) double local variable number 7 → KILLED  
 3. Decrementd (a--) double local variable number 7 → KILLED  
 4. Incremented (++a) double local variable number 7 → KILLED  
 5. Decrementd (--a) double local variable number 7 → KILLED  
 337 1. removed call to org/jfree/data/Range::<init> → KILLED

2. replaced return value with null for org/jfree/data/Range::expand → KILLED  
 3. mutated return of Object value for org/jfree/data/Range::expand to ( if (x != null) null else throw new RuntimeException ) → KILLED  
 4. Negated double local variable number 7 → KILLED  
 5. Negated double local variable number 9 → KILLED  
 6. Incremented (a++) double local variable number 7 → SURVIVED  
 7. Incremented (a++) double local variable number 9 → SURVIVED  
 8. Decrementd (a--) double local variable number 7 → SURVIVED  
 9. Decrementd (a--) double local variable number 9 → SURVIVED  
 10. Incremented (a++) double local variable number 7 → KILLED  
 11. Incremented (a++) double local variable number 9 → KILLED  
 12. Decrementd (a--) double local variable number 7 → KILLED  
 13. Decrementd (a--) double local variable number 9 → KILLED  
 1. replaced call to org/jfree/data/Range::shift with argument → KILLED  
 2. Substituted 0 with 1 → SURVIVED  
 3. removed call to org/jfree/data/Range::shift → KILLED  
 4. replaced return value with null for org/jfree/data/Range::shift → KILLED  
 5. mutated return of Object value for org/jfree/data/Range::shift to ( if (x != null) null else throw new RuntimeException ) → KILLED  
 6. Negated double local variable number 1 → KILLED  
 7. Substituted 0 with 1 → SURVIVED  
 8. Substituted 0 with -1 → SURVIVED  
 9. Substituted 0 with 1 → SURVIVED  
 10. Substituted 0 with -1 → SURVIVED  
 11. Incremented (a++) double local variable number 1 → SURVIVED  
 12. Decrementd (a--) double local variable number 1 → SURVIVED  
 13. Incremented (a++) double local variable number 1 → KILLED  
 14. Decrementd (a--) double local variable number 1 → KILLED  
 1. removed call to org/jfree/chart/util/ParamChecks::nullNotPermitted → SURVIVED  
 1. negated conditional → KILLED  
 2. removed conditional - replaced equality check with false → KILLED  
 3. removed conditional - replaced equality check with true → KILLED  
 4. Negated integer local variable number 3 → SURVIVED  
 5. equal to less than → KILLED  
 6. equal to less or equal → SURVIVED  
 7. equal to greater than → KILLED  
 8. equal to greater or equal → KILLED  
 9. equal to not equal → KILLED  
 10. Incremented (a++) integer local variable number 3 → SURVIVED  
 11. Decrementd (a--) integer local variable number 3 → SURVIVED  
 12. Incremented (a++) integer local variable number 3 → KILLED  
 13. Decrementd (a--) integer local variable number 3 → KILLED  
 1. removed call to org/jfree/data/Range::<init> → KILLED  
 2. Replaced double addition with subtraction → KILLED  
 3. removed call to org/jfree/data/Range::getLowerBound → KILLED  
 4. replaced return value with null for org/jfree/data/Range::shift → KILLED  
 5. mutated return of Object value for org/jfree/data/Range::shift to ( if (x != null) null else throw new RuntimeException ) → KILLED  
 6. Negated double local variable number 1 → KILLED  
 7. Replaced double operation with first member → KILLED  
 8. Replaced double operation by second member → KILLED  
 9. Replaced double addition with subtraction → KILLED  
 10. Replaced double addition with multiplication → KILLED  
 11. Replaced double addition with division → KILLED  
 12. Replaced double addition with modulus → KILLED  
 13. Incremented (a++) double local variable number 1 → KILLED  
 14. Decrementd (a--) double local variable number 1 → KILLED  
 15. Incremented (a++) double local variable number 1 → KILLED  
 16. Decrementd (a--) double local variable number 1 → KILLED  
 1. Replaced double addition with subtraction → KILLED  
 2. removed call to org/jfree/data/Range::getUpperBound → KILLED  
 3. Negated double local variable number 1 → KILLED  
 4. Replaced double operation with first member → KILLED  
 5. Replaced double operation by second member → KILLED

6. Replaced double addition with subtraction → KILLED  
7. Replaced double addition with multiplication → KILLED  
8. Replaced double addition with division → KILLED  
9. Replaced double addition with modulus → KILLED  
10. Incremented (a++) double local variable number 1 → SURVIVED  
11. Decrementd (a--) double local variable number 1 → SURVIVED  
12. Incremented (++a) double local variable number 1 → KILLED  
13. Decrementd (--a) double local variable number 1 → KILLED  
1. replaced call to org/jfree/data/Range::shiftWithNoZeroCrossing with argument → KILLED  
2. removed call to org/jfree/data/Range::<init> → KILLED  
371 3. removed call to org/jfree/data/Range::getLowerBound → KILLED  
4. removed call to org/jfree/data/Range::shiftWithNoZeroCrossing → KILLED  
5. replaced return value with null for org/jfree/data/Range::shift → KILLED  
6. mutated return of Object value for org/jfree/data/Range::shift to ( if (x != null) null else throw new RuntimeException ) → KILLED  
1. replaced call to org/jfree/data/Range::shiftWithNoZeroCrossing with argument → KILLED  
2. removed call to org/jfree/data/Range::getUpperBound → KILLED  
372 3. removed call to org/jfree/data/Range::shiftWithNoZeroCrossing → KILLED  
4. Negated double local variable number 1 → KILLED  
5. Incremented (a++) double local variable number 1 → KILLED  
6. Decrementd (a--) double local variable number 1 → KILLED  
7. Incremented (++a) double local variable number 1 → KILLED  
8. Decrementd (--a) double local variable number 1 → KILLED  
1. Negated double local variable number 1 → KILLED  
2. Incremented (a++) double local variable number 1 → SURVIVED  
373 3. Decrementd (a--) double local variable number 1 → SURVIVED  
4. Incremented (++a) double local variable number 1 → KILLED  
5. Decrementd (--a) double local variable number 1 → KILLED  
1. changed conditional boundary → SURVIVED  
2. Substituted 0.0 with 1.0 → SURVIVED  
3. negated conditional → KILLED  
4. removed conditional - replaced comparison check with false → KILLED  
5. removed conditional - replaced comparison check with true → KILLED  
6. Negated double local variable number 0 → KILLED  
7. Substituted 0.0 with 1.0 → SURVIVED  
8. Substituted 0.0 with -1.0 → SURVIVED  
9. Substituted 0.0 with 1.0 → SURVIVED  
387 10. Substituted 0.0 with -1.0 → SURVIVED  
11. Less or equal to less than → SURVIVED  
12. Less or equal to greater than → KILLED  
13. Less or equal to greater or equal → KILLED  
14. Less or equal to equal → KILLED  
15. Less or equal to not equal → KILLED  
16. Incremented (a++) double local variable number 0 → KILLED  
17. Decrementd (a--) double local variable number 0 → KILLED  
18. Incremented (++a) double local variable number 0 → KILLED  
19. Decrementd (--a) double local variable number 0 → KILLED  
388 1. replaced call to java/lang/Math::max with argument → KILLED  
2. Substituted 0.0 with 1.0 → KILLED  
3. Replaced double addition with subtraction → KILLED  
4. removed call to java/lang/Math::max → KILLED  
5. replaced double return with 0.0d for  
org/jfree/data/Range::shiftWithNoZeroCrossing → KILLED  
6. replaced return of double value with -(x + 1) for  
org/jfree/data/Range::shiftWithNoZeroCrossing → KILLED  
7. Negated double local variable number 0 → KILLED  
8. Negated double local variable number 2 → KILLED  
9. Replaced double operation with first member → KILLED  
10. Replaced double operation by second member → KILLED  
11. Replaced double addition with subtraction → KILLED  
12. Replaced double addition with multiplication → KILLED  
13. Replaced double addition with division → KILLED  
14. Replaced double addition with modulus → KILLED



15. Substituted 0.0 with 1.0 → KILLED  
 16. Substituted 0.0 with -1.0 → KILLED  
 17. Substituted 0.0 with 1.0 → KILLED  
 18. Substituted 0.0 with -1.0 → KILLED  
 19. Incremented (a++) double local variable number 0 → SURVIVED  
 20. Incremented (a++) double local variable number 2 → SURVIVED  
 21. Decrementd (a--) double local variable number 0 → SURVIVED  
 22. Decrementd (a--) double local variable number 2 → SURVIVED  
 23. Incremented (++) double local variable number 0 → KILLED  
 24. Incremented (++) double local variable number 2 → KILLED  
 25. Decrementd (--a) double local variable number 0 → KILLED  
 26. Decrementd (--a) double local variable number 2 → KILLED  
 1. changed conditional boundary → SURVIVED  
 2. Substituted 0.0 with 1.0 → SURVIVED  
 3. negated conditional → KILLED  
 4. removed conditional - replaced comparison check with false → KILLED  
 5. removed conditional - replaced comparison check with true → SURVIVED  
 6. Negated double local variable number 0 → KILLED  
 7. Substituted 0.0 with 1.0 → SURVIVED  
 8. Substituted 0.0 with -1.0 → SURVIVED  
 9. Substituted 0.0 with 1.0 → SURVIVED  
 10. Substituted 0.0 with -1.0 → SURVIVED  
 11. greater or equal to less than → KILLED  
 12. greater or equal to less or equal → KILLED  
 13. greater or equal to greater than → SURVIVED  
 14. greater or equal to equal → SURVIVED  
 15. greater or equal to not equal → KILLED  
 16. Incremented (a++) double local variable number 0 → KILLED  
 17. Decrementd (a--) double local variable number 0 → KILLED  
 18. Incremented (++) double local variable number 0 → KILLED  
 19. Decrementd (--a) double local variable number 0 → KILLED  
 1. replaced call to java/lang/Math::min with argument → KILLED  
 2. Substituted 0.0 with 1.0 → KILLED  
 3. Replaced double addition with subtraction → KILLED  
 4. removed call to java/lang/Math::min → KILLED  
 5. replaced double return with 0.0d for  
 org/jfree/data/Range::shiftWithNoZeroCrossing → KILLED  
 6. replaced return of double value with -(x + 1) for  
 org/jfree/data/Range::shiftWithNoZeroCrossing → KILLED  
 7. Negated double local variable number 0 → KILLED  
 8. Negated double local variable number 2 → KILLED  
 9. Replaced double operation with first member → KILLED  
 10. Replaced double operation by second member → KILLED  
 11. Replaced double addition with subtraction → KILLED  
 12. Replaced double addition with multiplication → KILLED  
 13. Replaced double addition with division → KILLED  
 14. Replaced double addition with modulus → KILLED  
 15. Substituted 0.0 with 1.0 → KILLED  
 16. Substituted 0.0 with -1.0 → KILLED  
 17. Substituted 0.0 with 1.0 → KILLED  
 18. Substituted 0.0 with -1.0 → KILLED  
 19. Incremented (a++) double local variable number 0 → SURVIVED  
 20. Incremented (a++) double local variable number 2 → SURVIVED  
 21. Decrementd (a--) double local variable number 0 → SURVIVED  
 22. Decrementd (a--) double local variable number 2 → SURVIVED  
 23. Incremented (++) double local variable number 0 → KILLED  
 24. Incremented (++) double local variable number 2 → KILLED  
 25. Decrementd (--a) double local variable number 0 → KILLED  
 26. Decrementd (--a) double local variable number 2 → KILLED  
 1. Replaced double addition with subtraction → SURVIVED  
 2. replaced double return with 0.0d for  
 org/jfree/data/Range::shiftWithNoZeroCrossing → SURVIVED  
 3. replaced return of double value with -(x + 1) for  
 org/jfree/data/Range::shiftWithNoZeroCrossing → SURVIVED  
 4. Negated double local variable number 0 → SURVIVED  
 5. Negated double local variable number 2 → SURVIVED

- 6. Replaced double operation with first member → SURVIVED
- 7. Replaced double operation by second member → SURVIVED
- 8. Replaced double addition with subtraction → SURVIVED
- 9. Replaced double addition with multiplication → SURVIVED
- 10. Replaced double addition with division → SURVIVED
- 11. Replaced double addition with modulus → SURVIVED
- 12. Incremented (a++) double local variable number 0 → SURVIVED
- 13. Incremented (a++) double local variable number 2 → SURVIVED
- 14. Decrementd (a--) double local variable number 0 → SURVIVED
- 15. Decrementd (a--) double local variable number 2 → SURVIVED
- 16. Incremented (++a) double local variable number 0 → SURVIVED
- 17. Incremented (++a) double local variable number 2 → SURVIVED
- 18. Decrementd (--a) double local variable number 0 → SURVIVED
- 19. Decrementd (--a) double local variable number 2 → SURVIVED
- [409](#) 1. removed call to org/jfree/chart/util/ParamChecks::nullNotPermitted → SURVIVED
- 1. changed conditional boundary → SURVIVED
- 2. Substituted 0.0 with 1.0 → KILLED
- 3. negated conditional → KILLED
- 4. removed conditional - replaced comparison check with false → SURVIVED
- 5. removed conditional - replaced comparison check with true → KILLED
- 6. Negated double local variable number 1 → KILLED
- 7. Substituted 0.0 with 1.0 → KILLED
- 8. Substituted 0.0 with -1.0 → SURVIVED
- 9. Substituted 0.0 with 1.0 → KILLED
- [410](#) 10. Substituted 0.0 with -1.0 → SURVIVED
- 11. greater or equal to less than → KILLED
- 12. greater or equal to less or equal → KILLED
- 13. greater or equal to greater than → SURVIVED
- 14. greater or equal to equal → KILLED
- 15. greater or equal to not equal → SURVIVED
- 16. Incremented (a++) double local variable number 1 → KILLED
- 17. Decrementd (a--) double local variable number 1 → KILLED
- 18. Incremented (++a) double local variable number 1 → KILLED
- 19. Decrementd (--a) double local variable number 1 → KILLED
- [411](#) 1. removed call to java/lang/IllegalArgumentException::<init> → SURVIVED
- 1. removed call to org/jfree/data/Range::<init> → KILLED
- 2. Replaced double multiplication with division → KILLED
- 3. removed call to org/jfree/data/Range::getLowerBound → KILLED
- 4. replaced return value with null for org/jfree/data/Range::scale → KILLED
- 5. mutated return of Object value for org/jfree/data/Range::scale to ( if (x != null) null else throw new RuntimeException ) → KILLED
- 6. Negated double local variable number 1 → KILLED
- 7. Replaced double operation with first member → KILLED
- [413](#) 8. Replaced double operation by second member → KILLED
- 9. Replaced double multiplication with division → KILLED
- 10. Replaced double multiplication with modulus → KILLED
- 11. Replaced double multiplication with addition → KILLED
- 12. Replaced double multiplication with subtraction → KILLED
- 13. Incremented (a++) double local variable number 1 → KILLED
- 14. Decrementd (a--) double local variable number 1 → KILLED
- 15. Incremented (++a) double local variable number 1 → KILLED
- 16. Decrementd (--a) double local variable number 1 → KILLED
- [414](#) 1. Replaced double multiplication with division → KILLED
- 2. removed call to org/jfree/data/Range::getUpperBound → KILLED
- 3. Negated double local variable number 1 → KILLED
- 4. Replaced double operation with first member → KILLED
- 5. Replaced double operation by second member → KILLED
- 6. Replaced double multiplication with division → KILLED
- 7. Replaced double multiplication with modulus → KILLED
- 8. Replaced double multiplication with addition → KILLED
- 9. Replaced double multiplication with subtraction → KILLED
- 10. Incremented (a++) double local variable number 1 → SURVIVED
- 11. Decrementd (a--) double local variable number 1 → SURVIVED
- 12. Incremented (++a) double local variable number 1 → KILLED

13. Decrementd (--a) double local variable number 1 → KILLED

1. negated conditional → KILLED

2. removed conditional - replaced equality check with false → KILLED

3. removed conditional - replaced equality check with true → KILLED

426 4. not equal to less than → KILLED

5. not equal to less or equal → KILLED

6. not equal to greater than → SURVIVED

7. not equal to greater or equal → KILLED

8. not equal to equal → KILLED

1. replaced boolean return with true for org/jfree/data/Range::equals → KILLED

2. Substituted 0 with 1 → KILLED

427 3. replaced return of integer sized value with (x == 0 ? 1 : 0) → KILLED

4. Substituted 0 with 1 → KILLED

5. Substituted 0 with -1 → KILLED

6. Substituted 0 with 1 → KILLED

7. Substituted 0 with -1 → KILLED

1. negated conditional → KILLED

2. removed conditional - replaced equality check with false → KILLED

3. removed conditional - replaced equality check with true → KILLED

4. Negated double field lower → KILLED

5. Negated double field lower → KILLED

6. equal to less than → KILLED

7. equal to less or equal → KILLED

8. equal to greater than → KILLED

9. equal to greater or equal → KILLED

430 10. equal to not equal → KILLED

11. Incremented (a++) double field lower → KILLED

12. Incremented (a++) double field lower → KILLED

13. Decrementd (a--) double field lower → KILLED

14. Decrementd (a--) double field lower → KILLED

15. Incremented (++a) double field lower → KILLED

16. Incremented (++a) double field lower → KILLED

17. Decrementd (--a) double fieldlower → KILLED

18. Decrementd (--a) double fieldlower → KILLED

1. replaced boolean return with true for org/jfree/data/Range::equals → KILLED

2. Substituted 0 with 1 → KILLED

431 3. replaced return of integer sized value with (x == 0 ? 1 : 0) → KILLED

4. Substituted 0 with 1 → KILLED

5. Substituted 0 with -1 → KILLED

6. Substituted 0 with 1 → KILLED

7. Substituted 0 with -1 → KILLED

1. negated conditional → KILLED

2. removed conditional - replaced equality check with false → KILLED

3. removed conditional - replaced equality check with true → KILLED

4. Negated double field upper → KILLED

5. Negated double field upper → KILLED

6. equal to less than → KILLED

7. equal to less or equal → KILLED

8. equal to greater than → KILLED

9. equal to greater or equal → KILLED

433 10. equal to not equal → KILLED

11. Incremented (a++) double field upper → KILLED

12. Incremented (a++) double field upper → KILLED

13. Decrementd (a--) double field upper → KILLED

14. Decrementd (a--) double field upper → KILLED

15. Incremented (++a) double field upper → KILLED

16. Incremented (++a) double field upper → KILLED

17. Decrementd (--a) double fieldupper → KILLED

18. Decrementd (--a) double fieldupper → KILLED

434 1. replaced boolean return with true for org/jfree/data/Range::equals → KILLED

2. Substituted 0 with 1 → KILLED

3. replaced return of integer sized value with (x == 0 ? 1 : 0) → KILLED

4. Substituted 0 with 1 → KILLED

5. Substituted 0 with -1 → KILLED

6. Substituted 0 with 1 → KILLED

7. Substituted 0 with -1 → KILLED
1. replaced boolean return with false for org/jfree/data/Range::equals → KILLED
2. Substituted 1 with 0 → KILLED
3. replaced return of integer sized value with (x == 0 ? 1 : 0) → KILLED
- 436 4. Substituted 1 with 0 → KILLED
5. Substituted 1 with -1 → SURVIVED
6. Substituted 1 with -1 → SURVIVED
7. Substituted 1 with 2 → KILLED
8. Substituted 1 with 0 → KILLED
1. replaced boolean return with false for org/jfree/data/Range::isNaNRange → KILLED
2. replaced boolean return with true for org/jfree/data/Range::isNaNRange → KILLED
3. Substituted 1 with 0 → KILLED
4. Substituted 0 with 1 → KILLED
5. negated conditional → KILLED
6. negated conditional → KILLED
7. removed call to java/lang/Double::isNaN → KILLED
8. removed call to java/lang/Double::isNaN → KILLED
9. removed conditional - replaced equality check with false → KILLED
10. removed conditional - replaced equality check with false → KILLED
11. removed conditional - replaced equality check with true → KILLED
12. removed conditional - replaced equality check with true → KILLED
13. replaced return of integer sized value with (x == 0 ? 1 : 0) → KILLED
14. replaced return of integer sized value with (x == 0 ? 1 : 0) → KILLED
15. Negated double field lower → SURVIVED
16. Negated double field upper → SURVIVED
17. Substituted 0 with 1 → KILLED
18. Substituted 1 with 0 → KILLED
19. Substituted 1 with -1 → SURVIVED
- 448 20. Substituted 0 with -1 → KILLED
21. Substituted 1 with -1 → SURVIVED
22. Substituted 1 with 2 → KILLED
23. Substituted 0 with 1 → KILLED
24. Substituted 1 with 0 → KILLED
25. Substituted 0 with -1 → KILLED
26. equal to less than → KILLED
27. equal to less than → KILLED
28. equal to less or equal → SURVIVED
29. equal to less or equal → SURVIVED
30. equal to greater than → KILLED
31. equal to greater than → KILLED
32. equal to greater or equal → KILLED
33. equal to greater or equal → KILLED
34. equal to not equal → KILLED
35. equal to not equal → KILLED
36. Incremented (a++) double field lower → KILLED
37. Incremented (a++) double field upper → SURVIVED
38. Decrementd (a--) double field lower → KILLED
39. Decrementd (a--) double field upper → SURVIVED
40. Incremented (++a) double field lower → KILLED
41. Incremented (++a) double field upper → SURVIVED
42. Decrementd (--a) double fieldlower → KILLED
43. Decrementd (--a) double fieldupper → SURVIVED
1. removed call to java/lang/Double::doubleToLongBits → SURVIVED
2. Negated double field lower → SURVIVED
- 460 3. Incremented (a++) double field lower → SURVIVED
4. Decrementd (a--) double field lower → SURVIVED
5. Incremented (++a) double field lower → SURVIVED
6. Decrementd (--a) double fieldlower → SURVIVED
- 461 1. Substituted 32 with 33 → SURVIVED
2. Replaced Unsigned Shift Right with Shift Left → SURVIVED
3. Replaced XOR with AND → SURVIVED
4. Negated long local variable number 2 → SURVIVED
5. Negated long local variable number 2 → SURVIVED
6. Substituted 32 with 1 → SURVIVED

7. Substituted 32 with 0 → SURVIVED  
 8. Substituted 32 with -1 → SURVIVED  
 9. Substituted 32 with -32 → SURVIVED  
 10. Substituted 32 with 33 → SURVIVED  
 11. Substituted 32 with 31 → SURVIVED  
 12. Incremented (a++) long local variable number 1 → SURVIVED  
 13. Incremented (a++) long local variable number 1 → SURVIVED  
 14. Decrementd (a--) long local variable number 2 → SURVIVED  
 15. Decrementd (a--) long local variable number 2 → SURVIVED  
 16. Incremented (++a) long local variable number 2 → SURVIVED  
 17. Incremented (++a) long local variable number 2 → SURVIVED  
 18. Decrementd (--a) long local variable number 1 → SURVIVED  
 19. Decrementd (--a) long local variable number 1 → SURVIVED  
 1. removed call to java/lang/Double::doubleToLongBits → SURVIVED  
 2. Negated double field upper → SURVIVED  
 3. Incremented (a++) double field upper → SURVIVED  
 4. Decrementd (a--) double field upper → SURVIVED  
 5. Incremented (++a) double field upper → SURVIVED  
 6. Decrementd (--a) double fieldupper → SURVIVED  
 1. Substituted 29 with 30 → SURVIVED  
 2. Substituted 32 with 33 → SURVIVED  
 3. Replaced integer multiplication with division → SURVIVED  
 4. Replaced Unsigned Shift Right with Shift Left → SURVIVED  
 5. Replaced XOR with AND → SURVIVED  
 6. Replaced integer addition with subtraction → SURVIVED  
 7. Negated integer local variable number 1 → SURVIVED  
 8. Negated long local variable number 2 → SURVIVED  
 9. Negated long local variable number 2 → SURVIVED  
 10. Replaced integer operation with first member → SURVIVED  
 11. Replaced integer operation with first member → SURVIVED  
 12. Replaced integer operation by second member → SURVIVED  
 13. Replaced integer operation by second member → SURVIVED  
 14. Replaced integer multiplication with division → SURVIVED  
 15. Replaced integer addition with subtraction → SURVIVED  
 16. Replaced integer multiplication with modulus → SURVIVED  
 17. Replaced integer addition with multiplication → SURVIVED  
 18. Replaced integer multiplication with addition → SURVIVED  
 19. Replaced integer addition with division → SURVIVED  
 20. Replaced integer multiplication with subtraction → SURVIVED  
 21. Replaced integer addition with modulus → SURVIVED  
 22. Substituted 29 with 1 → SURVIVED  
 23. Substituted 32 with 1 → SURVIVED  
 24. Substituted 29 with 0 → SURVIVED  
 25. Substituted 32 with 0 → SURVIVED  
 26. Substituted 29 with -1 → SURVIVED  
 27. Substituted 32 with -1 → SURVIVED  
 28. Substituted 29 with -29 → SURVIVED  
 29. Substituted 32 with -32 → SURVIVED  
 30. Substituted 29 with 30 → SURVIVED  
 31. Substituted 32 with 33 → SURVIVED  
 32. Substituted 29 with 28 → SURVIVED  
 33. Substituted 32 with 31 → SURVIVED  
 34. Incremented (a++) integer local variable number 3 → SURVIVED  
 35. Incremented (a++) long local variable number 1 → SURVIVED  
 36. Incremented (a++) long local variable number 1 → SURVIVED  
 37. Decrementd (a--) integer local variable number 1 → SURVIVED  
 38. Decrementd (a--) long local variable number 2 → SURVIVED  
 39. Decrementd (a--) long local variable number 2 → SURVIVED  
 40. Incremented (++a) integer local variable number 1 → SURVIVED  
 41. Incremented (++a) long local variable number 2 → SURVIVED  
 42. Incremented (++a) long local variable number 2 → SURVIVED  
 43. Decrementd (--a) integer local variable number 3 → SURVIVED  
 44. Decrementd (--a) long local variable number 1 → SURVIVED  
 45. Decrementd (--a) long local variable number 1 → SURVIVED  
 1. replaced int return with 0 for org/jfree/data/Range::hashCode → SURVIVED  
 2. replaced return of integer sized value with (x == 0 ? 1 : 0) → SURVIVED



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3. Negated integer local variable number 1 → SURVIVED
4. Incremented (a++) integer local variable number 3 → SURVIVED
5. Decrementd (a--) integer local variable number 1 → SURVIVED
6. Incremented (++a) integer local variable number 1 → SURVIVED
7. Decrementd (--a) integer local variable number 3 → SURVIVED
1. removed call to java/lang/StringBuilder::<init> → NO_COVERAGE
2. replaced return value with "" for org/jfree/data/Range::toString →
NO_COVERAGE
3. removed call to java/lang/StringBuilder::append → NO_COVERAGE
4. removed call to java/lang/StringBuilder::append → NO_COVERAGE
5. removed call to java/lang/StringBuilder::append → NO_COVERAGE
6. removed call to java/lang/StringBuilder::append → NO_COVERAGE
7. removed call to java/lang/StringBuilder::toString → NO_COVERAGE
8. mutated return of Object value for org/jfree/data/Range::toString to ( if
(x != null) null else throw new RuntimeException ) → NO_COVERAGE
9. replaced call to java/lang/StringBuilder::append with receiver → NO_COVERAGE
10. replaced call to java/lang/StringBuilder::append with receiver →
NO_COVERAGE
475 11. replaced call to java/lang/StringBuilder::append with receiver →
NO_COVERAGE
12. replaced call to java/lang/StringBuilder::append with receiver →
NO_COVERAGE
13. Negated double field lower → NO_COVERAGE
14. Negated double field upper → NO_COVERAGE
15. Incremented (a++) double field lower → NO_COVERAGE
16. Incremented (a++) double field upper → NO_COVERAGE
17. Decrementd (a--) double field lower → NO_COVERAGE
18. Decrementd (a--) double field upper → NO_COVERAGE
19. Incremented (++a) double field lower → NO_COVERAGE
20. Incremented (++a) double field upper → NO_COVERAGE
21. Decrementd (--a) double fieldlower → NO_COVERAGE
22. Decrementd (--a) double fieldupper → NO_COVERAGE

```

## Active mutators

- ABS\_MUTATOR
- AOD\_1\_MUTATOR
- AOD\_2\_MUTATOR
- AOR\_1\_MUTATOR
- AOR\_2\_MUTATOR
- AOR\_3\_MUTATOR
- AOR\_4\_MUTATOR
- ARGUMENT\_PROPAGATION\_MUTATOR
- BOOLEAN\_FALSE\_RETURN
- BOOLEAN\_TRUE\_RETURN
- CONDITIONALS\_BOUNDARY\_MUTATOR
- CONSTRUCTOR\_CALL\_MUTATOR
- CRCR\_1\_MUTATOR
- CRCR\_2\_MUTATOR
- CRCR\_3\_MUTATOR
- CRCR\_4\_MUTATOR
- CRCR\_5\_MUTATOR
- CRCR\_6\_MUTATOR
- EMPTY\_RETURN\_VALUES
- EXPERIMENTAL\_BIGINTEGER\_MUTATOR
- EXPERIMENTAL\_MEMBER\_VARIABLE\_MUTATOR
- EXPERIMENTAL\_REMOVE\_SWITCH\_MUTATOR\_[0-99]
- EXPERIMENTAL\_SWITCH\_MUTATOR
- INCREMENTS\_MUTATOR
- INLINE\_CONSTANT\_MUTATOR
- INVERT\_NEGS\_MUTATOR
- MATH\_MUTATOR
- NAKED\_RECEIVER
- NEGATE\_CONDITIONALS\_MUTATOR
- NON\_VOID\_METHOD\_CALL\_MUTATOR

- NULL\_RETURN\_VALUES
- OBBN\_1\_MUTATOR
- OBBN\_2\_MUTATOR
- OBBN\_3\_MUTATOR
- PRIMITIVE\_RETURN\_VALS\_MUTATOR
- REMOVE\_CONDITIONALS\_EQUAL\_ELSE\_MUTATOR
- REMOVE\_CONDITIONALS\_EQUAL\_IF\_MUTATOR
- REMOVE\_CONDITIONALS\_ORDER\_ELSE\_MUTATOR
- REMOVE\_CONDITIONALS\_ORDER\_IF\_MUTATOR
- REMOVE\_INCREMENTS\_MUTATOR
- RETURN\_VALS\_MUTATOR
- ROR\_1\_MUTATOR
- ROR\_2\_MUTATOR
- ROR\_3\_MUTATOR
- ROR\_4\_MUTATOR
- ROR\_5\_MUTATOR
- UOI\_1\_MUTATOR
- UOI\_2\_MUTATOR
- UOI\_3\_MUTATOR
- UOI\_4\_MUTATOR
- VOID\_METHOD\_CALL\_MUTATOR

## Tests examined

- org.jfree.chart.renderer.category.BoxAndWhiskerRendererTest.testDrawWithNullMedian (org.jfree.chart.renderer.category.BoxAndWhiskerRendererTest) (2 ms)
- org.jfree.chart.axis.DateAxisTest.testHashCode(org.jfree.chart.axis.DateAxisTest) (4 ms)
- org.jfree.chart.XYStepChartTest.testSetSeriesToolTipGenerator(org.jfree.chart.XYStepChartTest) (3 ms)
- org.jfree.chart.axis.PeriodAxisTest.testSerialization(org.jfree.chart.axis.PeriodAxisTest) (9 ms)
- org.jfree.chart.StackedBarChartTest.testReplaceDataset(org.jfree.chart.StackedBarChartTest) (3 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testIterateToFindRangeBounds\_MultiValueCategoryDataset (org.jfree.data.general.DatasetUtilitiesTest) (0 ms)
- org.jfree.chart.ScatterPlotTest.testDrawWithNullInfo(org.jfree.chart.ScatterPlotTest) (6 ms)
- org.jfree.chart.axis.ValueAxisTest.testEquals(org.jfree.chart.axis.ValueAxisTest) (1 ms)
- org.jfree.chart.plot.FastScatterPlotTest.testSerialization(org.jfree.chart.plot.FastScatterPlotTest) (5 ms)
- org.jfree.chart.plot.XYPlotTest.testRangeMarkerIndices(org.jfree.chart.plot.XYPlotTest) (1 ms)
- org.jfree.chart.plot.CategoryPlotTest.testAxisIndices(org.jfree.chart.plot.CategoryPlotTest) (0 ms)
- org.jfree.chart.BarChartTest.testReplaceDataset(org.jfree.chart.BarChartTest) (2 ms)
- org.jfree.chart.renderer.category.BoxAndWhiskerRendererTest.testBug1572478Horizontal (org.jfree.chart.renderer.category.BoxAndWhiskerRendererTest) (22 ms)
- org.jfree.chart.LineChart3DTest.testSetSeriesURLGenerator(org.jfree.chart.LineChart3DTest) (5 ms)
- org.jfree.chart.plot.CategoryPlotTest.testSerialization2(org.jfree.chart.plot.CategoryPlotTest) (4 ms)
- org.jfree.data.statistics.DefaultMultiValueCategoryDatasetTest.testAddValue (org.jfree.data.statistics.DefaultMultiValueCategoryDatasetTest) (2 ms)
- org.jfree.chart.axis.PeriodAxisTest.testCloning(org.jfree.chart.axis.PeriodAxisTest) (1 ms)
- org.jfree.chart.LineChartTest.testReplaceDataset(org.jfree.chart.LineChartTest) (2 ms)
- org.jfree.chart.BarChart3DTest.testSetSeriesURLGenerator(org.jfree.chart.BarChart3DTest) (1 ms)
- org.jfree.data.time.TimePeriodValuesCollectionTest.testGetDomainBoundsWithoutInterval (org.jfree.data.time.TimePeriodValuesCollectionTest) (0 ms)
- org.jfree.chart.renderer.category.BarRendererTest.testGetLegendItemSeriesIndex (org.jfree.chart.renderer.category.BarRendererTest) (1 ms)
- org.jfree.chart.TimeSeriesChartTest.testSetSeriesToolTipGenerator(org.jfree.chart.TimeSeriesChartTest) (6 ms)
- org.jfree.chart.renderer.category.ScatterRendererTest.testFindRangeBounds (org.jfree.chart.renderer.category.ScatterRendererTest) (0 ms)
- org.jfree.chart.renderer.category.BarRendererTest.testGetLegendItem (org.jfree.chart.renderer.category.BarRendererTest) (0 ms)
- org.jfree.chart.axis.NumberAxisTest.testXYAutoRange1(org.jfree.chart.axis.NumberAxisTest) (6 ms)
- org.jfree.chart.XYLineChartTest.testReplaceDataset(org.jfree.chart.XYLineChartTest) (2 ms)
- org.jfree.chart.renderer.category.StatisticalLineAndShapeRendererTest.testFindRangeBounds (org.jfree.chart.renderer.category.StatisticalLineAndShapeRendererTest) (0 ms)
- org.jfree.chart.renderer.xy.StandardXYItemRendererTest.testNoDisplayedItem (org.jfree.chart.renderer.xy.StandardXYItemRendererTest) (2 ms)
- org.jfree.chart.axis.CyclicNumberAxisTest.testHashCode(org.jfree.chart.axis.CyclicNumberAxisTest) (0 ms)
- org.jfree.chart.renderer.xy.XYBarRendererTest.testFindRangeBounds (org.jfree.chart.renderer.xy.XYBarRendererTest) (0 ms)

- org.jfree.data.xy.XYSeriesCollectionTest.testGetDomainBounds(org.jfree.data.xy.XYSeriesCollectionTest) (0 ms)
- org.jfree.chart.plot.SpiderWebPlotTest.testDrawWithNullInfo(org.jfree.chart.plot.SpiderWebPlotTest) (5 ms)
- org.jfree.chart.ChartPanelTest.test2502355\_zoomInBoth(org.jfree.chart.ChartPanelTest) (6 ms)
- org.jfree.chart.ChartPanelTest.test2502355\_restoreAutoDomainBounds(org.jfree.chart.ChartPanelTest) (25 ms)
- org.jfree.chart.WaterfallChartTest.testDrawWithNullInfo(org.jfree.chart.WaterfallChartTest) (5 ms)
- org.jfree.chart.TimeSeriesChartTest.testReplaceDataset(org.jfree.chart.TimeSeriesChartTest) (3 ms)
- org.jfree.chart.renderer.xy.XYLineAndShapeRendererTest.testFindDomainBounds(org.jfree.chart.renderer.xy.XYLineAndShapeRendererTest) (1 ms)
- org.jfree.chart.axis.SubCategoryAxisTest.test2275695(org.jfree.chart.axis.SubCategoryAxisTest) (4 ms)
- org.jfree.chart.axis.ValueAxisTest.testAxisMargins(org.jfree.chart.axis.ValueAxisTest) (1 ms)
- org.jfree.chart.plot.CombinedDomainXYPlotTest.testNotification(org.jfree.chart.plot.CombinedDomainXYPlotTest) (9 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testIterateRangeBounds\_CategoryDataset(org.jfree.data.general.DatasetUtilitiesTest) (0 ms)
- org.jfree.chart.renderer.category.BoxAndWhiskerRendererTest.testGetLegendItem(org.jfree.chart.renderer.category.BoxAndWhiskerRendererTest) (1 ms)
- org.jfree.chart.plot.CategoryPlotTest.testAxisLocationIndices(org.jfree.chart.plot.CategoryPlotTest) (0 ms)
- org.jfree.chart.plot.ThermometerPlotTest.testSerialization2(org.jfree.chart.plot.ThermometerPlotTest) (3 ms)
- org.jfree.chart.JFreeChartTest.testSerialization4(org.jfree.chart.JFreeChartTest) (181 ms)
- org.jfree.data.xy.DefaultOHLCDatasetTest.testDataRange(org.jfree.data.xy.DefaultOHLCDatasetTest) (0 ms)
- org.jfree.chart.axis.ColorBarTest.testHashCode(org.jfree.chart.axis.ColorBarTest) (0 ms)
- org.jfree.chart.renderer.xy.CandlestickRendererTest.testFindRangeBounds(org.jfree.chart.renderer.xy.CandlestickRendererTest) (0 ms)
- org.jfree.chart.renderer.xy.StackedXYAreaRendererTest.testFindRangeBounds(org.jfree.chart.renderer.xy.StackedXYAreaRendererTest) (1 ms)
- org.jfree.chart.GanttChartTest.testSetSeriesURLGenerator(org.jfree.chart.GanttChartTest) (1 ms)
- org.jfree.chart.renderer.xy.XYBarRendererTest.testFindDomainBounds2(org.jfree.chart.renderer.xy.XYBarRendererTest) (0 ms)
- org.jfree.chart.block.GridArrangementTest.testGridNotFull\_FR(org.jfree.chart.block.GridArrangementTest) (0 ms)
- org.jfree.chart.renderer.category.StatisticalBarRendererTest.testDrawWithNullInfo(org.jfree.chart.renderer.category.StatisticalBarRendererTest) (4 ms)
- org.jfree.chart.axis.ModuloAxisTest.testCloning(org.jfree.chart.axis.ModuloAxisTest) (0 ms)
- org.jfree.data.statistics.DefaultBoxAndWhiskerCategoryDatasetTest.testAddUpdatesCachedRange(org.jfree.data.statistics.DefaultBoxAndWhiskerCategoryDatasetTest) (0 ms)
- org.jfree.chart.renderer.xy.ClusteredXYBarRendererTest.testFindDomainBounds(org.jfree.chart.renderer.xy.ClusteredXYBarRendererTest) (1 ms)
- org.jfree.chart.plot.PolarPlotTest.testTranslateToJava2D\_NumberAxisAndMargin(org.jfree.chart.plot.PolarPlotTest) (1 ms)
- org.jfree.chart.XYAreaChartTest.testSetSeriesToolTipGenerator(org.jfree.chart.XYAreaChartTest) (1 ms)
- org.jfree.chart.AreaChartTest.testDrawWithNullInfo(org.jfree.chart.AreaChartTest) (468 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testIterateToFindRangeBounds2\_XYDataset(org.jfree.data.general.DatasetUtilitiesTest) (1 ms)
- org.jfree.chart.block.RectangleConstraintTest.testCalculateConstrainedSize(org.jfree.chart.block.RectangleConstraintTest) (0 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testFindDomainBounds\_NaN(org.jfree.data.general.DatasetUtilitiesTest) (1 ms)
- org.jfree.chart.plot.CategoryPlotTest.testSerialization4(org.jfree.chart.plot.CategoryPlotTest) (10 ms)
- org.jfree.data.RangeTest.testExpand(org.jfree.data.RangeTest) (0 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testCumulativeRange\_NaN(org.jfree.data.general.DatasetUtilitiesTest) (6 ms)
- org.jfree.chart.renderer.category.MinMaxCategoryRendererTest.testDrawWithNullInfo(org.jfree.chart.renderer.category.MinMaxCategoryRendererTest) (5 ms)
- org.jfree.chart.axis.NumberAxis3DTest.testSerialization(org.jfree.chart.axis.NumberAxis3DTest) (8 ms)
- org.jfree.chart.renderer.xy.XYStepRendererTest.testDrawWithNullInfo(org.jfree.chart.renderer.xy.XYStepRendererTest) (4 ms)
- org.jfree.data.statistics.DefaultMultiValueCategoryDatasetTest.testGetValue(org.jfree.data.statistics.DefaultMultiValueCategoryDatasetTest) (0 ms)
- org.jfree.chart.plot.CombinedDomainCategoryPlotTest.testCloning(org.jfree.chart.plot.CombinedDomainCategoryPlotTest) (1 ms)
- org.jfree.chart.axis.ModuloAxisTest.testEquals(org.jfree.chart.axis.ModuloAxisTest) (1 ms)
- org.jfree.chart.renderer.xy.HighLowRendererTest.testFindRangeBounds(org.jfree.chart.renderer.xy.HighLowRendererTest) (0 ms)
- org.jfree.data.statistics.DefaultMultiValueCategoryDatasetTest.testCloning(org.jfree.data.statistics.DefaultMultiValueCategoryDatasetTest) (0 ms)
- org.jfree.chart.axis.ColorBarTest.testCloning(org.jfree.chart.axis.ColorBarTest) (1 ms)



- org.jfree.chart.renderer.xy.XYDotRendererTest.testGetLegendItemSeriesIndex (org.jfree.chart.renderer.xy.XYDotRendererTest) (0 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testBug2849731\_2(org.jfree.data.general.DatasetUtilitiesTest) (0 ms)
- org.jfree.chart.LineChart3DTest.testReplaceDataset(org.jfree.chart.LineChart3DTest) (9 ms)
- org.jfree.data.statistics.DefaultBoxAndWhiskerXYDatasetTest.testEquals (org.jfree.data.statistics.DefaultBoxAndWhiskerXYDatasetTest) (0 ms)
- org.jfree.chart.renderer.category.StackedBarRendererTest.testFindRangeBounds (org.jfree.chart.renderer.category.StackedBarRendererTest) (1 ms)
- org.jfree.chart.plot.XYPlotTest.testSerialization4(org.jfree.chart.plot.XYPlotTest) (13 ms)
- org.jfree.data.RangeTest.testConstrain(org.jfree.data.RangeTest) (0 ms)
- org.jfree.chart.renderer.category.BoxAndWhiskerRendererTest.testDrawWithNullIQ3 (org.jfree.chart.renderer.category.BoxAndWhiskerRendererTest) (6 ms)
- org.jfree.chart.GanttChartTest.testDrawWithNullInfo(org.jfree.chart.GanttChartTest) (8 ms)
- org.jfree.chart.BarChart3DTest.testDrawWithNullInfo(org.jfree.chart.BarChart3DTest) (6 ms)
- org.jfree.chart.renderer.xy.XYBarRendererTest.testFindDomainBounds (org.jfree.chart.renderer.xy.XYBarRendererTest) (0 ms)
- org.jfree.chart.block.BorderArrangementTest.testBugX(org.jfree.chart.block.BorderArrangementTest) (0 ms)
- org.jfree.chart.plot.MeterIntervalTest.testEquals(org.jfree.chart.plot.MeterIntervalTest) (0 ms)
- org.jfree.data.RangeTest.testCombine(org.jfree.data.RangeTest) (0 ms)
- org.jfree.chart.XYStepAreaChartTest.testReplaceDataset(org.jfree.chart.XYStepAreaChartTest) (5 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testIterateDomainBounds\_NaN2 (org.jfree.data.general.DatasetUtilitiesTest) (1 ms)
- org.jfree.chart.plot.XYPlotTest.testGetRangeAxisForDataset(org.jfree.chart.plot.XYPlotTest) (2 ms)
- org.jfree.chart.axis.LogAxisTest.testAutoRange1(org.jfree.chart.axis.LogAxisTest) (3 ms)
- org.jfree.chart.axis.NumberAxisTest.testCloning(org.jfree.chart.axis.NumberAxisTest) (0 ms)
- org.jfree.chart.BarChartTest.testSetSeriesToolTipGenerator(org.jfree.chart.BarChartTest) (2 ms)
- org.jfree.chart.plot.XYPlotTest.testRendererIndices(org.jfree.chart.plot.XYPlotTest) (0 ms)
- org.jfree.chart.BarChart3DTest.testReplaceDataset(org.jfree.chart.BarChart3DTest) (2 ms)
- org.jfree.chart.block.GridArrangementTest.testNullBlock\_FR(org.jfree.chart.block.GridArrangementTest) (1 ms)
- org.jfree.data.RangeTest.testHashCode(org.jfree.data.RangeTest) (0 ms)
- org.jfree.chart.renderer.category.StatisticalBarRendererTest.testDrawWithNullMeanVertical (org.jfree.chart.renderer.category.StatisticalBarRendererTest) (34 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testFindStackedRangeBounds\_CategoryDataset3 (org.jfree.data.general.DatasetUtilitiesTest) (1 ms)
- org.jfree.chart.plot.FastScatterPlotTest.testDrawWithNullInfo(org.jfree.chart.plot.FastScatterPlotTest) (8 ms)
- org.jfree.chart.plot.CombinedDomainCategoryPlotTest.testNotification (org.jfree.chart.plot.CombinedDomainCategoryPlotTest) (7 ms)
- org.jfree.chart.plot.MeterPlotTest.testCloning(org.jfree.chart.plot.MeterPlotTest) (1 ms)
- org.jfree.chart.axis.SymbolAxisTest.testEquals(org.jfree.chart.axis.SymbolAxisTest) (2 ms)
- org.jfree.chart.renderer.category.BoxAndWhiskerRendererTest.testGetLegendItemSeriesIndex (org.jfree.chart.renderer.category.BoxAndWhiskerRendererTest) (0 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testFindStackedRangeBoundsForTableXYDataset2 (org.jfree.data.general.DatasetUtilitiesTest) (0 ms)
- org.jfree.chart.StackedAreaChartTest.testSetSeriesToolTipGenerator(org.jfree.chart.StackedAreaChartTest) (2 ms)
- org.jfree.chart.renderer.xy.StandardXYItemRendererTest.testGetLegendItemSeriesIndex (org.jfree.chart.renderer.xy.StandardXYItemRendererTest) (1 ms)
- org.jfree.chart.axis.DateAxisTest.testSerialization(org.jfree.chart.axis.DateAxisTest) (46 ms)
- org.jfree.chart.plot.CategoryPlotTest.testRendererIndices(org.jfree.chart.plot.CategoryPlotTest) (0 ms)
- org.jfree.chart.plot.CategoryPlotTest.testEquals\_ObjectList3(org.jfree.chart.plot.CategoryPlotTest) (0 ms)
- org.jfree.chart.renderer.xy.XYBarRendererTest.testFindRangeBounds2 (org.jfree.chart.renderer.xy.XYBarRendererTest) (1 ms)
- org.jfree.chart.renderer.category.StatisticalLineAndShapeRendererTest.testDrawWithNullInfo (org.jfree.chart.renderer.category.StatisticalLineAndShapeRendererTest) (2 ms)
- org.jfree.chart.plot.CombinedDomainXYPlotTest.testSerialization (org.jfree.chart.plot.CombinedDomainXYPlotTest) (24 ms)
- org.jfree.chart.plot.XYPlotTest.testCloneIndependence(org.jfree.chart.plot.XYPlotTest) (2 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testFindDomainBounds(org.jfree.data.general.DatasetUtilitiesTest) (0 ms)
- org.jfree.chart.axis.DateAxisTest.testSetRange(org.jfree.chart.axis.DateAxisTest) (0 ms)
- org.jfree.chart.axis.DateAxisTest.testCloning(org.jfree.chart.axis.DateAxisTest) (1 ms)
- org.jfree.chart.ChartPanelTest.test2502355\_zoom(org.jfree.chart.ChartPanelTest) (5 ms)
- org.jfree.chart.axis.DateAxisTest.testSetMinimumDate(org.jfree.chart.axis.DateAxisTest) (1 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testFindMinimumDomainValue (org.jfree.data.general.DatasetUtilitiesTest) (1 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testBug2849731(org.jfree.data.general.DatasetUtilitiesTest) (1 ms)
- org.jfree.data.RangeTest.testIsNaNRange(org.jfree.data.RangeTest) (0 ms)

- org.jfree.chart.axis.DateAxisTest.testPreviousStandardDateSecondB(org.jfree.chart.axis.DateAxisTest) (3 ms)
- org.jfree.chart.axis.ValueAxisTest.test355275(org.jfree.chart.axis.ValueAxisTest) (6 ms)
- org.jfree.chart.plot.XYPlotTest.testSerialization5(org.jfree.chart.plot.XYPlotTest) (16 ms)
- org.jfree.chart.XYAreaChartTest.testDrawWithNullInfo(org.jfree.chart.XYAreaChartTest) (11 ms)
- org.jfree.chart.BarChartTest.testDrawWithNullInfo(org.jfree.chart.BarChartTest) (5 ms)
- org.jfree.chart.renderer.category.BoxAndWhiskerRendererTest.testDrawWithNullMaxOutlier  
(org.jfree.chart.renderer.category.BoxAndWhiskerRendererTest) (4 ms)
- org.jfree.chart.plot.ThermometerPlotTest.testEquals(org.jfree.chart.plot.ThermometerPlotTest) (1 ms)
- org.jfree.chart.XYStepAreaChartTest.testDrawWithNullInfo(org.jfree.chart.XYStepAreaChartTest) (2 ms)
- org.jfree.chart.renderer.category.StatisticalBarRendererTest.testFindRangeBounds  
(org.jfree.chart.renderer.category.StatisticalBarRendererTest) (0 ms)
- org.jfree.chart.axis.NumberAxisTest.testEquals(org.jfree.chart.axis.NumberAxisTest) (1 ms)
- org.jfree.data.RangeTest.testCombineIgnoringNaN(org.jfree.data.RangeTest) (0 ms)
- org.jfree.chart.StackedBarChart3DTest.testDrawWithNullInfo(org.jfree.chart.StackedBarChart3DTest) (4 ms)
- org.jfree.chart.plot.CategoryPlotTest.testSerialization5(org.jfree.chart.plot.CategoryPlotTest) (10 ms)
- org.jfree.chart.XYLineChartTest.testSetSeriesToolTipGenerator(org.jfree.chart.XYLineChartTest) (1 ms)
- org.jfree.chart.plot.CategoryPlotTest.testMapDatasetToDomainAxis(org.jfree.chart.plot.CategoryPlotTest) (0 ms)
- org.jfree.chart.plot.CategoryPlotTest.testGetRangeAxisForDataset(org.jfree.chart.plot.CategoryPlotTest) (2 ms)
- org.jfree.chart.XYAreaChartTest.testReplaceDataset(org.jfree.chart.XYAreaChartTest) (1 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testIterateRangeBounds3(org.jfree.data.general.DatasetUtilitiesTest) (0 ms)
- org.jfree.chart.plot.CategoryPlotTest.test1654215(org.jfree.chart.plot.CategoryPlotTest) (5 ms)
- org.jfree.chart.renderer.category.BoxAndWhiskerRendererTest.testDrawWithNullMinOutlier  
(org.jfree.chart.renderer.category.BoxAndWhiskerRendererTest) (2 ms)
- org.jfree.data.time.DateRangeTest.testSerialization(org.jfree.data.time.DateRangeTest) (0 ms)
- org.jfree.chart.plot.FastScatterPlotTest.testEquals(org.jfree.chart.plot.FastScatterPlotTest) (1 ms)
- org.jfree.chart.axis.LogarithmicAxisTest.testSerialization(org.jfree.chart.axis.LogarithmicAxisTest) (3 ms)
- org.jfree.chart.plot.XYPlotTest.testAxisIndices(org.jfree.chart.plot.XYPlotTest) (1 ms)
- org.jfree.data.time.TimeSeriesCollectionTest.testGetRangeBounds2  
(org.jfree.data.time.TimeSeriesCollectionTest) (1 ms)
- org.jfree.chart.plot.CombinedDomainXYPlotTest.testRemoveSubplot  
(org.jfree.chart.plot.CombinedDomainXYPlotTest) (1 ms)
- org.jfree.chart.annotations.XYTitleAnnotationTest.testDrawWithNullInfo  
(org.jfree.chart.annotations.XYTitleAnnotationTest) (13 ms)
- org.jfree.chart.renderer.category.IntervalBarRendererTest.testFindRangeBounds  
(org.jfree.chart.renderer.category.IntervalBarRendererTest) (1 ms)
- org.jfree.chart.axis.DateAxisTest.testPreviousStandardDateYearB(org.jfree.chart.axis.DateAxisTest) (1 ms)
- org.jfree.chart.plot.XYPlotTest.testSerialization1(org.jfree.chart.plot.XYPlotTest) (6 ms)
- org.jfree.chart.axis.DateAxisTest.testEquals(org.jfree.chart.axis.DateAxisTest) (95 ms)
- org.jfree.chart.axis.DateAxisTest.testBug2201869(org.jfree.chart.axis.DateAxisTest) (20 ms)
- org.jfree.chart.axis.DateAxisTest.test1472942(org.jfree.chart.axis.DateAxisTest) (4 ms)
- org.jfree.chart.plot.XYPlotTest.testGetRendererForDataset2(org.jfree.chart.plot.XYPlotTest) (0 ms)
- org.jfree.chart.axis.LogAxisTest.testAutoRange3(org.jfree.chart.axis.LogAxisTest) (1 ms)
- org.jfree.chart.renderer.category.LevelRendererTest.testGetLegendItemSeriesIndex  
(org.jfree.chart.renderer.category.LevelRendererTest) (0 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testCumulativeRange3(org.jfree.data.general.DatasetUtilitiesTest) (0 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testIterateRangeBounds2(org.jfree.data.general.DatasetUtilitiesTest) (0 ms)
- org.jfree.chart.ChartPanelTest.test2502355\_zoomOutRange(org.jfree.chart.ChartPanelTest) (4 ms)
- org.jfree.chart.plot.XYPlotTest.testEquals\_ObjectList(org.jfree.chart.plot.XYPlotTest) (1 ms)
- org.jfree.chart.axis.NumberAxisTest.testAutoRange2(org.jfree.chart.axis.NumberAxisTest) (1 ms)
- org.jfree.chart.ChartPanelTest.test2502355\_zoomOutDomain(org.jfree.chart.ChartPanelTest) (3 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testIterateDomainBounds\_NaN  
(org.jfree.data.general.DatasetUtilitiesTest) (0 ms)
- org.jfree.chart.renderer.category.StatisticalBarRendererTest.testDrawWithNullMeanHorizontal  
(org.jfree.chart.renderer.category.StatisticalBarRendererTest) (10 ms)
- org.jfree.chart.renderer.xy.XYBoxAndWhiskerRendererTest.test2909215  
(org.jfree.chart.renderer.xy.XYBoxAndWhiskerRendererTest) (3 ms)
- org.jfree.chart.renderer.category.LineAndShapeRendererTest.testGetLegendItemSeriesIndex  
(org.jfree.chart.renderer.category.LineAndShapeRendererTest) (0 ms)
- org.jfree.chart.axis.CyclicNumberAxisTest.testCloning(org.jfree.chart.axis.CyclicNumberAxisTest) (1 ms)
- org.jfree.chart.plot.XYPlotTest.testDatasetIndices(org.jfree.chart.plot.XYPlotTest) (0 ms)
- org.jfree.chart.plot.ThermometerPlotTest.testSetUnits(org.jfree.chart.plot.ThermometerPlotTest) (0 ms)
- org.jfree.chart.XYBarChartTest.testReplaceDataset(org.jfree.chart.XYBarChartTest) (1 ms)
- org.jfree.chart.axis.LogAxisTest.testHashCode(org.jfree.chart.axis.LogAxisTest) (1 ms)

- org.jfree.chart.renderer.category.CategoryStepRendererTest.testGetLegendItemSeriesIndex (org.jfree.chart.renderer.category.CategoryStepRendererTest) (1 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testIterateToFindRangeBounds\_StatisticalCategoryDataset (org.jfree.data.general.DatasetUtilitiesTest) (1 ms)
- org.jfree.chart.renderer.category.BoxAndWhiskerRendererTest.testDrawWithNullMaxRegular (org.jfree.chart.renderer.category.BoxAndWhiskerRendererTest) (3 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testIterateRangeBounds3\_CategoryDataset (org.jfree.data.general.DatasetUtilitiesTest) (1 ms)
- org.jfree.chart.title.PaintScaleLegendTest.testEquals(org.jfree.chart.title.PaintScaleLegendTest) (0 ms)
- org.jfree.chart.plot.CategoryPlotTest.testEquals(org.jfree.chart.plot.CategoryPlotTest) (31 ms)
- org.jfree.chart.renderer.category.StatisticalBarRendererTest.testDrawWithNullDeviationVertical (org.jfree.chart.renderer.category.StatisticalBarRendererTest) (13 ms)
- org.jfree.chart.axis.PeriodAxisTest.test2490803(org.jfree.chart.axis.PeriodAxisTest) (1 ms)
- org.jfree.chart.GanttChartTest.testReplaceDataset(org.jfree.chart.GanttChartTest) (2 ms)
- org.jfree.chart.StackedAreaChartTest.testDrawWithNullInfo(org.jfree.chart.StackedAreaChartTest) (4 ms)
- org.jfree.data.statistics.DefaultMultiValueCategoryDatasetTest.testGetValue2 (org.jfree.data.statistics.DefaultMultiValueCategoryDatasetTest) (0 ms)
- org.jfree.chart.axis.ModuloAxisTest.testHashCode(org.jfree.chart.axis.ModuloAxisTest) (1 ms)
- org.jfree.chart.plot.CombinedDomainXYPlotTest.testCloning(org.jfree.chart.plot.CombinedDomainXYPlotTest) (2 ms)
- org.jfree.chart.renderer.category.StackedAreaRendererTest.testFindRangeBounds (org.jfree.chart.renderer.category.StackedAreaRendererTest) (0 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testFindRangeBounds(org.jfree.data.general.DatasetUtilitiesTest) (1 ms)
- org.jfree.chart.axis.DateAxisTest.testPreviousStandardDateYearA(org.jfree.chart.axis.DateAxisTest) (1 ms)
- org.jfree.chart.plot.PolarPlotTest.testEquals(org.jfree.chart.plot.PolarPlotTest) (1 ms)
- org.jfree.chart.axis.PeriodAxisTest.testHashCode(org.jfree.chart.axis.PeriodAxisTest) (3 ms)
- org.jfree.chart.renderer.xy.StackedXYBarRendererTest.testFindDomainBounds (org.jfree.chart.renderer.xy.StackedXYBarRendererTest) (1 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testIterateRangeBounds2\_CategoryDataset (org.jfree.data.general.DatasetUtilitiesTest) (0 ms)
- org.jfree.chart.plot.CategoryPlotTest.testMapDatasetToRangeAxis(org.jfree.chart.plot.CategoryPlotTest) (1 ms)
- org.jfree.chart.renderer.xy.XYLineAndShapeRendererTest.testFindRangeBounds (org.jfree.chart.renderer.xy.XYLineAndShapeRendererTest) (0 ms)
- org.jfree.data.time.DateRangeTest.testEquals(org.jfree.data.time.DateRangeTest) (0 ms)
- org.jfree.chart.axis.LogarithmicAxisTest.testJava2DToValue(org.jfree.chart.axis.LogarithmicAxisTest) (1 ms)
- org.jfree.chart.LineChart3DTest.testSetSeriesToolTipGenerator(org.jfree.chart.LineChart3DTest) (2 ms)
- org.jfree.chart.plot.CombinedRangeCategoryPlotTest.testEquals (org.jfree.chart.plot.CombinedRangeCategoryPlotTest) (4 ms)
- org.jfree.chart.axis.DateAxisTest.testPreviousStandardDateSecondA(org.jfree.chart.axis.DateAxisTest) (1 ms)
- org.jfree.chart.plot.CombinedRangeCategoryPlotTest.testRemoveSubplot (org.jfree.chart.plot.CombinedRangeCategoryPlotTest) (1 ms)
- org.jfree.chart.AreaChartTest.testSetSeriesToolTipGenerator(org.jfree.chart.AreaChartTest) (1 ms)
- org.jfree.data.xy.XYSeriesCollectionTest.testBug3445507(org.jfree.data.xy.XYSeriesCollectionTest) (2 ms)
- org.jfree.chart.LineChartTest.testSetSeriesURLGenerator(org.jfree.chart.LineChartTest) (2 ms)
- org.jfree.data.time.TimeSeriesCollectionTest.testGetRangeBounds(org.jfree.data.time.TimeSeriesCollectionTest) (0 ms)
- org.jfree.chart.axis.LogAxisTest.testXYAutoRange2(org.jfree.chart.axis.LogAxisTest) (3 ms)
- org.jfree.chart.plot.CategoryPlotTest.testDatasetIndices(org.jfree.chart.plot.CategoryPlotTest) (0 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testFindStackedRangeBoundsForTableXYDataset1 (org.jfree.data.general.DatasetUtilitiesTest) (1 ms)
- org.jfree.chart.renderer.category.BoxAndWhiskerRendererTest.testDrawWithNullMinRegular (org.jfree.chart.renderer.category.BoxAndWhiskerRendererTest) (3 ms)
- org.jfree.chart.StackedAreaChartTest.testSetSeriesURLGenerator(org.jfree.chart.StackedAreaChartTest) (1 ms)
- org.jfree.chart.axis.NumberAxisTest.testHashCode(org.jfree.chart.axis.NumberAxisTest) (1 ms)
- org.jfree.data.statistics.DefaultBoxAndWhiskerXYDatasetTest.testSerialization (org.jfree.data.statistics.DefaultBoxAndWhiskerXYDatasetTest) (9 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testFindDomainBounds3(org.jfree.data.general.DatasetUtilitiesTest) (4 ms)
- org.jfree.chart.XYStepChartTest.testDrawWithNullInfo(org.jfree.chart.XYStepChartTest) (4 ms)
- org.jfree.chart.title.PaintScaleLegendTest.testCloning(org.jfree.chart.title.PaintScaleLegendTest) (1 ms)
- org.jfree.data.time.TimeSeriesCollectionTest.testBug3445507(org.jfree.data.time.TimeSeriesCollectionTest) (0 ms)
- org.jfree.chart.axis.NumberAxisTest.testTranslateJava2DToValue(org.jfree.chart.axis.NumberAxisTest) (0 ms)
- org.jfree.chart.XYStepChartTest.testReplaceDataset(org.jfree.chart.XYStepChartTest) (1 ms)
- org.jfree.chart.plot.CombinedRangeCategoryPlotTest.testNotification (org.jfree.chart.plot.CombinedRangeCategoryPlotTest) (18 ms)

- org.jfree.chart.title.PaintScaleLegendTest.testSerialization(org.jfree.chart.title.PaintScaleLegendTest) (4 ms)
- org.jfree.chart.AreaChartTest.testSetSeriesURLGenerator(org.jfree.chart.AreaChartTest) (2 ms)
- org.jfree.chart.WaterfallChartTest.testSetSeriesToolTipGenerator(org.jfree.chart.WaterfallChartTest) (2 ms)
- org.jfree.chart.axis.ModuloAxisTest.testSerialization(org.jfree.chart.axis.ModuloAxisTest) (4 ms)
- org.jfree.chart.axis.LogAxisTest.testCloning(org.jfree.chart.axis.LogAxisTest) (1 ms)
- org.jfree.chart.plot.XYPlotTest.testMapDatasetToRangeAxis(org.jfree.chart.plot.XYPlotTest) (1 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testStackedRangeWithMap(org.jfree.data.general.DatasetUtilitiesTest) (0 ms)
- org.jfree.data.time.DateRangeTest.testClone(org.jfree.data.time.DateRangeTest) (0 ms)
- org.jfree.chart.axis.NumberAxisTest.testAutoRange4(org.jfree.chart.axis.NumberAxisTest) (0 ms)
- org.jfree.chart.plot.CombinedRangeXYPlotTest.testEquals(org.jfree.chart.plot.CombinedRangeXYPlotTest) (1 ms)
- org.jfree.chart.renderer.category.BoxAndWhiskerRendererTest.testDrawWithNullQ1(org.jfree.chart.renderer.category.BoxAndWhiskerRendererTest) (40 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testCumulativeRange1(org.jfree.data.general.DatasetUtilitiesTest) (1 ms)
- org.jfree.chart.BarChart3DTest.testSetSeriesToolTipGenerator(org.jfree.chart.BarChart3DTest) (2 ms)
- org.jfree.chart.plot.XYPlotTest.testSerialization2(org.jfree.chart.plot.XYPlotTest) (12 ms)
- org.jfree.chart.renderer.category.BoxAndWhiskerRendererTest.testDrawWithNullInfo(org.jfree.chart.renderer.category.BoxAndWhiskerRendererTest) (3 ms)
- org.jfree.chart.plot.PolarPlotTest.testCloning(org.jfree.chart.plot.PolarPlotTest) (1 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testFindMaximumDomainValue(org.jfree.data.general.DatasetUtilitiesTest) (2 ms)
- org.jfree.chart.plot.CategoryPlotTest.test1169972(org.jfree.chart.plot.CategoryPlotTest) (1 ms)
- org.jfree.chart.renderer.xy.StackedXYAreaRendererTest.testDrawWithNullInfo(org.jfree.chart.renderer.xy.StackedXYAreaRendererTest) (7 ms)
- org.jfree.chart.XYStepAreaChartTest.testSetSeriesToolTipGenerator(org.jfree.chart.XYStepAreaChartTest) (0 ms)
- org.jfree.chart.XYBarChartTest.testSetSeriesToolTipGenerator(org.jfree.chart.XYBarChartTest) (3 ms)
- org.jfree.data.statistics.DefaultBoxAndWhiskerXYDatasetTest.testGetRangeBounds(org.jfree.data.statistics.DefaultBoxAndWhiskerXYDatasetTest) (0 ms)
- org.jfree.chart.plot.CategoryPlotTest.testSerialization3(org.jfree.chart.plot.CategoryPlotTest) (14 ms)
- org.jfree.chart.ChartPanelTest.test2502355\_restoreAutoRangeBounds(org.jfree.chart.ChartPanelTest) (7 ms)
- org.jfree.chart.plot.PiePlot3DTest.testDrawWithNullDataset(org.jfree.chart.plot.PiePlot3DTest) (2 ms)
- org.jfree.data.time.TimeSeriesCollectionTest.testFindDomainBounds(org.jfree.data.time.TimeSeriesCollectionTest) (0 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testFindRangeBounds\_CategoryDataset(org.jfree.data.general.DatasetUtilitiesTest) (2 ms)
- org.jfree.chart.plot.CategoryPlotTest.testGetRendererForDataset2(org.jfree.chart.plot.CategoryPlotTest) (1 ms)
- org.jfree.data.time.TimeSeriesTest.testFindValueRange2(org.jfree.data.time.TimeSeriesTest) (1 ms)
- org.jfree.chart.ChartPanelTest.test2502355\_restoreAutoBounds(org.jfree.chart.ChartPanelTest) (62 ms)
- org.jfree.data.statistics.DefaultMultiValueCategoryDatasetTest.testGetRowCount(org.jfree.data.statistics.DefaultMultiValueCategoryDatasetTest) (0 ms)
- org.jfree.data.statistics.DefaultBoxAndWhiskerXYDatasetTest.testCloning(org.jfree.data.statistics.DefaultBoxAndWhiskerXYDatasetTest) (1 ms)
- org.jfree.chart.ScatterPlotTest.testReplaceDataset(org.jfree.chart.ScatterPlotTest) (2 ms)
- org.jfree.chart.renderer.AbstractRendererTest.testOutlinePaintLookup(org.jfree.chart.renderer.AbstractRendererTest) (0 ms)
- org.jfree.chart.plot.CategoryPlotTest.testGetDomainAxisForDataset(org.jfree.chart.plot.CategoryPlotTest) (0 ms)
- org.jfree.chart.MeterChartTest.testDrawWithNullInfo(org.jfree.chart.MeterChartTest) (21 ms)
- org.jfree.chart.GanttChartTest.testSetSeriesToolTipGenerator(org.jfree.chart.GanttChartTest) (3 ms)
- org.jfree.chart.XYBarChartTest.testDrawWithNullInfo(org.jfree.chart.XYBarChartTest) (14 ms)
- org.jfree.chart.plot.CombinedRangeCategoryPlotTest.testCloning(org.jfree.chart.plot.CombinedRangeCategoryPlotTest) (1 ms)
- org.jfree.chart.renderer.xy.StackedXYAreaRendererTest.testBug1593156(org.jfree.chart.renderer.xy.StackedXYAreaRendererTest) (3 ms)
- org.jfree.chart.axis.LogAxisTest.testSerialization(org.jfree.chart.axis.LogAxisTest) (13 ms)
- org.jfree.chart.ChartPanelTest.test2502355\_zoomInDomain(org.jfree.chart.ChartPanelTest) (4 ms)
- org.jfree.chart.renderer.AbstractRendererTest.testFillPaintLookup(org.jfree.chart.renderer.AbstractRendererTest) (0 ms)
- org.jfree.chart.ChartPanelTest.testSetMouseWheelEnabled(org.jfree.chart.ChartPanelTest) (7 ms)
- org.jfree.data.statistics.DefaultBoxAndWhiskerCategoryDatasetTest.testRemove(org.jfree.data.statistics.DefaultBoxAndWhiskerCategoryDatasetTest) (0 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testIterateToFindRangeBounds\_BoxAndWhiskerXYDataset(org.jfree.data.general.DatasetUtilitiesTest) (0 ms)
- org.jfree.chart.BarChartTest.testSetSeriesURLGenerator(org.jfree.chart.BarChartTest) (2 ms)
- org.jfree.chart.JFreeChartTest.testSerialization3(org.jfree.chart.JFreeChartTest) (48 ms)

- org.jfree.chart.plot.MeterIntervalTest.testCloning(org.jfree.chart.plot.MeterIntervalTest) (0 ms)
- org.jfree.chart.renderer.category.StackedBarRenderer3DTest.testFindRangeBounds  
(org.jfree.chart.renderer.category.StackedBarRenderer3DTest) (1 ms)
- org.jfree.chart.StackedBarChart3DTest.testReplaceDataset(org.jfree.chart.StackedBarChart3DTest) (2 ms)
- org.jfree.chart.plot.XYPlotTest.testCloning3(org.jfree.chart.plot.XYPlotTest) (1 ms)
- org.jfree.chart.plot.CombinedDomainCategoryPlotTest.testEquals  
(org.jfree.chart.plot.CombinedDomainCategoryPlotTest) (3 ms)
- org.jfree.chart.plot.XYPlotTest.testCloning2(org.jfree.chart.plot.XYPlotTest) (3 ms)
- org.jfree.chart.LineChart3DTest.testDrawWithNullInfo(org.jfree.chart.LineChart3DTest) (11 ms)
- org.jfree.data.statistics.DefaultBoxAndWhiskerCategoryDatasetTest.testGetRangeBounds  
(org.jfree.data.statistics.DefaultBoxAndWhiskerCategoryDatasetTest) (0 ms)
- org.jfree.chart.axis.DateAxisTest.testPreviousStandardDateMillisecondB(org.jfree.chart.axis.DateAxisTest) (4 ms)
- org.jfree.chart.plot.CategoryPlotTest.testGetRangeAxisIndex(org.jfree.chart.plot.CategoryPlotTest) (2 ms)
- org.jfree.data.statistics.DefaultMultiValueCategoryDatasetTest.testGetColumnCount  
(org.jfree.data.statistics.DefaultMultiValueCategoryDatasetTest) (0 ms)
- org.jfree.chart.block.GridArrangementTest.testRN(org.jfree.chart.block.GridArrangementTest) (1 ms)
- org.jfree.chart.plot.MeterPlotTest.testSerialization2(org.jfree.chart.plot.MeterPlotTest) (2 ms)
- org.jfree.chart.plot.CombinedRangeXYPlotTest.testNotification(org.jfree.chart.plot.CombinedRangeXYPlotTest) (13 ms)
- org.jfree.chart.LineChartTest.testDrawWithNullInfo(org.jfree.chart.LineChartTest) (5 ms)
- org.jfree.chart.renderer.category.AbstractCategoryItemRendererTest.testFindRangeBounds  
(org.jfree.chart.renderer.category.AbstractCategoryItemRendererTest) (0 ms)
- org.jfree.chart.plot.CombinedRangeCategoryPlotTest.testSerialization  
(org.jfree.chart.plot.CombinedRangeCategoryPlotTest) (161 ms)
- org.jfree.chart.axis.ColorBarTest.testEquals(org.jfree.chart.axis.ColorBarTest) (1 ms)
- org.jfree.chart.axis.DateAxisTest.testPreviousStandardDateMillisecondA(org.jfree.chart.axis.DateAxisTest) (4 ms)
- org.jfree.chart.StackedBarChart3DTest.testSetSeriesToolTipGenerator(org.jfree.chart.StackedBarChart3DTest) (0 ms)
- org.jfree.chart.plot.CombinedDomainXYPlotTest.testEquals(org.jfree.chart.plot.CombinedDomainXYPlotTest) (3 ms)
- org.jfree.data.RangeTest.testScale(org.jfree.data.RangeTest) (0 ms)
- org.jfree.data.statistics.DefaultMultiValueCategoryDatasetTest.testSerialization  
(org.jfree.data.statistics.DefaultMultiValueCategoryDatasetTest) (1 ms)
- org.jfree.chart.renderer.xy.XYBlockRendererTest.testFindDomainBounds  
(org.jfree.chart.renderer.xy.XYBlockRendererTest) (0 ms)
- org.jfree.chart.renderer.xy.StackedXYAreaRenderer2Test.testFindRangeBounds  
(org.jfree.chart.renderer.xy.StackedXYAreaRenderer2Test) (0 ms)
- org.jfree.chart.plot.XYPlotTest.testDrawRangeGridlines(org.jfree.chart.plot.XYPlotTest) (3 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testFindDomainBounds2(org.jfree.data.general.DatasetUtilitiesTest) (0 ms)
- org.jfree.chart.GanttChartTest.testDrawWithNullInfo2(org.jfree.chart.GanttChartTest) (30 ms)
- org.jfree.data.RangeTest.testShift(org.jfree.data.RangeTest) (0 ms)
- org.jfree.chart.axis.DateAxisTest.testPreviousStandardDateDayB(org.jfree.chart.axis.DateAxisTest) (3 ms)
- org.jfree.chart.axis.LogAxisTest.testRefreshTicksWithZeroTickUnit(org.jfree.chart.axis.LogAxisTest) (67 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testIterateToFindRangeBounds1\_XYDataset  
(org.jfree.data.general.DatasetUtilitiesTest) (1 ms)
- org.jfree.chart.axis.SymbolAxisTest.testSerialization(org.jfree.chart.axis.SymbolAxisTest) (3 ms)
- org.jfree.chart.axis.ColorBarTest.testSerialization(org.jfree.chart.axis.ColorBarTest) (3 ms)
- org.jfree.data.RangeTest.testEquals(org.jfree.data.RangeTest) (0 ms)
- org.jfree.chart.renderer.xy.XYDifferenceRendererTest.testGetLegendItemSeriesIndex  
(org.jfree.chart.renderer.xy.XYDifferenceRendererTest) (1 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testCumulativeRange2(org.jfree.data.general.DatasetUtilitiesTest) (0 ms)
- org.jfree.data.time.TimePeriodValuesCollectionTest.testGetDomainBoundsWithInterval  
(org.jfree.data.time.TimePeriodValuesCollectionTest) (0 ms)
- org.jfree.chart.plot.ThermometerPlotTest.testCloning(org.jfree.chart.plot.ThermometerPlotTest) (1 ms)
- org.jfree.chart.renderer.category.GroupedStackedBarRendererTest.testFindRangeBounds  
(org.jfree.chart.renderer.category.GroupedStackedBarRendererTest) (0 ms)
- org.jfree.chart.plot.CategoryPlotTest.testRangeMarkerIndices(org.jfree.chart.plot.CategoryPlotTest) (2 ms)
- org.jfree.chart.XYLineChartTest.testDrawWithNullInfo(org.jfree.chart.XYLineChartTest) (5 ms)
- org.jfree.chart.axis.PeriodAxisTest.testEquals(org.jfree.chart.axis.PeriodAxisTest) (0 ms)
- org.jfree.chart.axis.SymbolAxisTest.testCloning(org.jfree.chart.axis.SymbolAxisTest) (1 ms)
- org.jfree.chart.axis.LogAxisTest.testTranslateJava2DToValue(org.jfree.chart.axis.LogAxisTest) (1 ms)
- org.jfree.chart.plot.MeterPlotTest.testEquals(org.jfree.chart.plot.MeterPlotTest) (1 ms)
- org.jfree.chart.plot.ThermometerPlotTest.testSerialization(org.jfree.chart.plot.ThermometerPlotTest) (5 ms)

- org.jfree.chart.axis.CyclicNumberAxisTest.testEquals(org.jfree.chart.axis.CyclicNumberAxisTest) (0 ms)
- org.jfree.data.statistics.DefaultStatisticalCategoryDatasetTest.testGetRangeBounds  
(org.jfree.data.statistics.DefaultStatisticalCategoryDatasetTest) (0 ms)
- org.jfree.chart.renderer.xy.XYStepAreaRendererTest.testDrawWithNullInfo  
(org.jfree.chart.renderer.xy.XYStepAreaRendererTest) (8 ms)
- org.jfree.chart.plot.CategoryPlotTest.testGetDomainAxisIndex(org.jfree.chart.plot.CategoryPlotTest) (0 ms)
- org.jfree.chart.title.PaintScaleLegendTest.testHashCode(org.jfree.chart.title.PaintScaleLegendTest) (0 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testBug2849731\_3(org.jfree.data.general.DatasetUtilitiesTest) (0 ms)
- org.jfree.chart.axis.NumberAxisTest.testAutoRange3(org.jfree.chart.axis.NumberAxisTest) (1 ms)
- org.jfree.chart.axis.LogAxisTest.testTickMarksVisibleDefault(org.jfree.chart.axis.LogAxisTest) (1 ms)
- org.jfree.data.statistics.DefaultMultiValueCategoryDatasetTest.testEquals  
(org.jfree.data.statistics.DefaultMultiValueCategoryDatasetTest) (1 ms)
- org.jfree.chart.renderer.xy.StackedXYAreaRenderer2Test.testDrawWithEmptyDataset  
(org.jfree.chart.renderer.xy.StackedXYAreaRenderer2Test) (2 ms)
- org.jfree.data.RangeTest.testContains(org.jfree.data.RangeTest) (0 ms)
- org.jfree.chart.axis.DateAxisTest.testPreviousStandardDateDayA(org.jfree.chart.axis.DateAxisTest) (3 ms)
- org.jfree.chart.axis.LogAxisTest.testEquals(org.jfree.chart.axis.LogAxisTest) (2 ms)
- org.jfree.chart.plot.CombinedRangeXYPlotTest.testCloning(org.jfree.chart.plot.CombinedRangeXYPlotTest) (3 ms)
- org.jfree.chart.renderer.xy.XYAreaRendererTest.testDrawWithNullInfo  
(org.jfree.chart.renderer.xy.XYAreaRendererTest) (3 ms)
- org.jfree.chart.plot.PolarPlotTest.testTranslateToJava2D\_LogAxis(org.jfree.chart.plot.PolarPlotTest) (2 ms)
- org.jfree.chart.axis.LogarithmicAxisTest.testSwitchedLog10(org.jfree.chart.axis.LogarithmicAxisTest) (1 ms)
- org.jfree.data.statistics.DefaultBoxAndWhiskerXYDatasetTest.testAdd  
(org.jfree.data.statistics.DefaultBoxAndWhiskerXYDatasetTest) (0 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testIterateRangeBounds\_IntervalCategoryDataset  
(org.jfree.data.general.DatasetUtilitiesTest) (0 ms)
- org.jfree.chart.renderer.xy.XYAreaRendererTest.testGetLegendItemSeriesIndex  
(org.jfree.chart.renderer.xy.XYAreaRendererTest) (1 ms)
- org.jfree.chart.axis.CyclicNumberAxisTest.testSerialization(org.jfree.chart.axis.CyclicNumberAxisTest) (2 ms)
- org.jfree.chart.LineChartTest.testSetSeriesToolTipGenerator(org.jfree.chart.LineChartTest) (3 ms)
- org.jfree.chart.renderer.category.StatisticalBarRendererTest.testDrawWithNullDeviationHorizontal  
(org.jfree.chart.renderer.category.StatisticalBarRendererTest) (5 ms)
- org.jfree.chart.axis.DateAxisTest.testBug3484403(org.jfree.chart.axis.DateAxisTest) (4 ms)
- org.jfree.chart.plot.MeterIntervalTest.testSerialization(org.jfree.chart.plot.MeterIntervalTest) (1 ms)
- org.jfree.chart.plot.XYPlotTest.testSetNullRenderer(org.jfree.chart.plot.XYPlotTest) (1 ms)
- org.jfree.chart.StackedBarChart3DTest.testSetSeriesURLGenerator(org.jfree.chart.StackedBarChart3DTest) (2 ms)
- org.jfree.chart.plot.XYPlotTest.testEquals\_ObjectList3(org.jfree.chart.plot.XYPlotTest) (1 ms)
- org.jfree.chart.renderer.xy.XYStepRendererTest.testDrawWithNullValue  
(org.jfree.chart.renderer.xy.XYStepRendererTest) (7 ms)
- org.jfree.chart.plot.XYPlotTest.testMapDatasetToDomainAxis(org.jfree.chart.plot.XYPlotTest) (0 ms)
- org.jfree.chart.axis.NumberAxisTest.testSerialization(org.jfree.chart.axis.NumberAxisTest) (4 ms)
- org.jfree.chart.plot.XYPlotTest.testAxisLocationIndices(org.jfree.chart.plot.XYPlotTest) (2 ms)
- org.jfree.data.xy.XYSeriesCollectionTest.testGetRangeBounds(org.jfree.data.xy.XYSeriesCollectionTest) (2 ms)
- org.jfree.chart.axis.PeriodAxisTest.test1932146(org.jfree.chart.axis.PeriodAxisTest) (1 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testIterateRangeBounds4(org.jfree.data.general.DatasetUtilitiesTest) (0 ms)
- org.jfree.chart.renderer.xy.XYBarRendererTest.testGetLegendItemSeriesIndex  
(org.jfree.chart.renderer.xy.XYBarRendererTest) (1 ms)
- org.jfree.chart.PieChart3DTest.testNullValueInDataset(org.jfree.chart.PieChart3DTest) (23 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testFindStackedRangeBounds\_CategoryDataset2  
(org.jfree.data.general.DatasetUtilitiesTest) (4 ms)
- org.jfree.chart.StackedBarChartTest.testSetSeriesURLGenerator(org.jfree.chart.StackedBarChartTest) (1 ms)
- org.jfree.chart.renderer.category.LevelRendererTest.testDrawWithNullInfo  
(org.jfree.chart.renderer.category.LevelRendererTest) (5 ms)
- org.jfree.chart.axis.LogAxisTest.testXYAutoRange1(org.jfree.chart.axis.LogAxisTest) (1 ms)
- org.jfree.chart.plot.CategoryPlotTest.testAxisRange(org.jfree.chart.plot.CategoryPlotTest) (1 ms)
- org.jfree.chart.plot.CombinedRangeXYPlotTest.testRemoveSubplot  
(org.jfree.chart.plot.CombinedRangeXYPlotTest) (2 ms)
- org.jfree.chart.WaterfallChartTest.testSetSeriesURLGenerator(org.jfree.chart.WaterfallChartTest) (1 ms)
- org.jfree.data.RangeTest.testSerialization(org.jfree.data.RangeTest) (1 ms)
- org.jfree.chart.renderer.category.AreaRendererTest.testGetLegendItemSeriesIndex  
(org.jfree.chart.renderer.category.AreaRendererTest) (0 ms)
- org.jfree.chart.renderer.category.BoxAndWhiskerRendererTest.testBug1572478Vertical  
(org.jfree.chart.renderer.category.BoxAndWhiskerRendererTest) (2 ms)

- org.jfree.data.statistics.DefaultBoxAndWhiskerCategoryDatasetTest.testAdd (org.jfree.data.statistics.DefaultBoxAndWhiskerCategoryDatasetTest) (0 ms)
- org.jfree.chart.plot.CombinedDomainCategoryPlotTest.testSerialization (org.jfree.chart.plot.CombinedDomainCategoryPlotTest) (14 ms)
- org.jfree.chart.block.GridArrangementTest.testNR(org.jfree.chart.block.GridArrangementTest) (1 ms)
- org.jfree.data.time.DateRangeTest.testImmutable(org.jfree.data.time.DateRangeTest) (0 ms)
- org.jfree.chart.axis.DateAxisTest.testJava2DToValue(org.jfree.chart.axis.DateAxisTest) (5 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testFindStackedRangeBounds\_CategoryDataset1 (org.jfree.data.general.DatasetUtilitiesTest) (0 ms)
- org.jfree.chart.block.GridArrangementTest.testRF(org.jfree.chart.block.GridArrangementTest) (0 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testIterateRangeBounds(org.jfree.data.general.DatasetUtilitiesTest) (0 ms)
- org.jfree.chart.renderer.xy.XYLineAndShapeRendererTest.testGetLegendItemSeriesIndex (org.jfree.chart.renderer.xy.XYLineAndShapeRendererTest) (0 ms)
- org.jfree.chart.AreaChartTest.testReplaceDataset(org.jfree.chart.AreaChartTest) (1 ms)
- org.jfree.chart.renderer.category.BoxAndWhiskerRendererTest.testDrawWithNullMean (org.jfree.chart.renderer.category.BoxAndWhiskerRendererTest) (3 ms)
- org.jfree.chart.axis.NumberAxisTest.testXYAutoRange2(org.jfree.chart.axis.NumberAxisTest) (2 ms)
- org.jfree.chart.axis.DateAxisTest.testPreviousStandardDateHourA(org.jfree.chart.axis.DateAxisTest) (1 ms)
- org.jfree.data.time.TimeSeriesTest.testFindValueRange(org.jfree.data.time.TimeSeriesTest) (0 ms)
- org.jfree.chart.ChartPanelTest.test2502355\_zoomOutBoth(org.jfree.chart.ChartPanelTest) (4 ms)
- org.jfree.chart.ChartPanelTest.test2502355\_zoomInRange(org.jfree.chart.ChartPanelTest) (6 ms)
- org.jfree.chart.axis.LogarithmicAxisTest.testAdjustedLog10(org.jfree.chart.axis.LogarithmicAxisTest) (0 ms)
- org.jfree.chart.plot.FastScatterPlotTest.testEquals2(org.jfree.chart.plot.FastScatterPlotTest) (1 ms)
- org.jfree.chart.plot.CategoryPlotTest.testSerialization(org.jfree.chart.plot.CategoryPlotTest) (5 ms)
- org.jfree.chart.renderer.category.GroupedStackedBarRendererTest.testDrawWithNullInfo (org.jfree.chart.renderer.category.GroupedStackedBarRendererTest) (9 ms)
- org.jfree.chart.plot.XYPlotTest.testCloning4(org.jfree.chart.plot.XYPlotTest) (1 ms)
- org.jfree.chart.axis.DateAxisTest.testPreviousStandardDateMonthA(org.jfree.chart.axis.DateAxisTest) (1 ms)
- org.jfree.chart.plot.XYPlotTest.test1654215(org.jfree.chart.plot.XYPlotTest) (4 ms)
- org.jfree.chart.plot.XYPlotTest.testGetDomainAxisForDataset(org.jfree.chart.plot.XYPlotTest) (0 ms)
- org.jfree.chart.StackedBarChartTest.testSetSeriesToolTipGenerator(org.jfree.chart.StackedBarChartTest) (2 ms)
- org.jfree.chart.plot.PiePlotTest.testDrawWithNullLegendLabels(org.jfree.chart.plot.PiePlotTest) (7 ms)
- org.jfree.chart.axis.PeriodAxisTest.testEqualsWithLocale(org.jfree.chart.axis.PeriodAxisTest) (59 ms)
- org.jfree.chart.axis.DateAxisTest.testPreviousStandardDateHourB(org.jfree.chart.axis.DateAxisTest) (3 ms)
- org.jfree.chart.axis.LogAxisTest.testSetLowerBound(org.jfree.chart.axis.LogAxisTest) (0 ms)
- org.jfree.chart.axis.DateAxisTest.testSetMaximumDate(org.jfree.chart.axis.DateAxisTest) (0 ms)
- org.jfree.chart.axis.LogarithmicAxisTest.testValueToJava2D(org.jfree.chart.axis.LogarithmicAxisTest) (0 ms)
- org.jfree.chart.plot.XYPlotTest.testDrawSeriesWithZeroItems(org.jfree.chart.plot.XYPlotTest) (6 ms)
- org.jfree.data.statistics.DefaultStatisticalCategoryDatasetTest.testRemove (org.jfree.data.statistics.DefaultStatisticalCategoryDatasetTest) (0 ms)
- org.jfree.chart.plot.PolarPlotTest.testTranslateToJava2D\_NumberAxis(org.jfree.chart.plot.PolarPlotTest) (2 ms)
- org.jfree.chart.axis.DateAxisTest.testPreviousStandardDateMonthB(org.jfree.chart.axis.DateAxisTest) (1 ms)
- org.jfree.chart.plot.CombinedRangeXYPlotTest.testSerialization (org.jfree.chart.plot.CombinedRangeXYPlotTest) (29 ms)
- org.jfree.data.RangeTest.testIntersects(org.jfree.data.RangeTest) (0 ms)
- org.jfree.data.statistics.DefaultStatisticalCategoryDatasetTest.test3072674 (org.jfree.data.statistics.DefaultStatisticalCategoryDatasetTest) (0 ms)
- org.jfree.chart.renderer.category.LayeredBarRendererTest.testDrawWithNullInfo (org.jfree.chart.renderer.category.LayeredBarRendererTest) (6 ms)
- org.jfree.chart.plot.CategoryPlotTest.testDomainMarkerIndices(org.jfree.chart.plot.CategoryPlotTest) (0 ms)
- org.jfree.data.RangeTest.testConstructor(org.jfree.data.RangeTest) (0 ms)
- org.jfree.data.statistics.DefaultStatisticalCategoryDatasetTest.testGetRangeBounds2 (org.jfree.data.statistics.DefaultStatisticalCategoryDatasetTest) (1 ms)
- org.jfree.chart.StackedBarChartTest.testDrawWithNullInfo(org.jfree.chart.StackedBarChartTest) (4 ms)
- org.jfree.chart.renderer.category.LineAndShapeRendererTest.testFindRangeBounds (org.jfree.chart.renderer.category.LineAndShapeRendererTest) (1 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testFindRangeBounds2(org.jfree.data.general.DatasetUtilitiesTest) (1 ms)
- org.jfree.chart.renderer.xy.XYBubbleRendererTest.testGetLegendItemSeriesIndex (org.jfree.chart.renderer.xy.XYBubbleRendererTest) (1 ms)
- org.jfree.chart.renderer.category.IntervalBarRendererTest.testDrawWithNullInfo (org.jfree.chart.renderer.category.IntervalBarRendererTest) (12 ms)
- org.jfree.chart.renderer.xy.AbstractXYItemRendererTest.testFindDomainBounds (org.jfree.chart.renderer.xy.AbstractXYItemRendererTest) (0 ms)
- org.jfree.chart.TimeSeriesChartTest.testDrawWithNullInfo(org.jfree.chart.TimeSeriesChartTest) (5 ms)

- org.jfree.chart.renderer.category.BarRendererTest.testFindRangeBounds (org.jfree.chart.renderer.category.BarRendererTest) (0 ms)
- org.jfree.chart.axis.NumberAxisTest.testAutoRange1(org.jfree.chart.axis.NumberAxisTest) (0 ms)
- org.jfree.chart.renderer.xy.XYAreaRenderer2Test.testGetLegendItemSeriesIndex (org.jfree.chart.renderer.xy.XYAreaRenderer2Test) (1 ms)
- org.jfree.chart.axis.NumberAxisTest.testSetLowerBound(org.jfree.chart.axis.NumberAxisTest) (0 ms)
- org.jfree.data.general.DatasetUtilitiesTest.testIterateDomainBounds(org.jfree.data.general.DatasetUtilitiesTest) (1 ms)
- org.jfree.chart.StackedAreaChartTest.testReplaceDataset(org.jfree.chart.StackedAreaChartTest) (1 ms)
- org.jfree.chart.plot.XYPlotTest.testEquals(org.jfree.chart.plot.XYPlotTest) (7 ms)
- org.jfree.chart.renderer.AbstractRendererTest.testPaintLookup(org.jfree.chart.renderer.AbstractRendererTest) (1 ms)
- org.jfree.chart.plot.FastScatterPlotTest.testCloning(org.jfree.chart.plot.FastScatterPlotTest) (2 ms)
- org.jfree.chart.renderer.xy.XYAreaRenderer2Test.testDrawWithNullInfo (org.jfree.chart.renderer.xy.XYAreaRenderer2Test) (11 ms)
- org.jfree.chart.block.GridArrangementTest.testRR(org.jfree.chart.block.GridArrangementTest) (2 ms)
- org.jfree.chart.ScatterPlotTest.testSetSeriesToolTipGenerator(org.jfree.chart.ScatterPlotTest) (4 ms)
- org.jfree.chart.plot.XYPlotTest.testDomainMarkerIndices(org.jfree.chart.plot.XYPlotTest) (2 ms)
- org.jfree.chart.renderer.xy.YIntervalRendererTest.testGetLegendItemSeriesIndex (org.jfree.chart.renderer.xy.YIntervalRendererTest) (1 ms)
- org.jfree.chart.axis.ValueAxisTest.testCloning(org.jfree.chart.axis.ValueAxisTest) (1 ms)
- org.jfree.chart.renderer.xy.StackedXYBarRendererTest.testFindRangeBounds (org.jfree.chart.renderer.xy.StackedXYBarRendererTest) (0 ms)
- org.jfree.chart.plot.XYPlotTest.testSerialization3(org.jfree.chart.plot.XYPlotTest) (9 ms)
- org.jfree.chart.plot.MeterPlotTest.testSerialization1(org.jfree.chart.plot.MeterPlotTest) (3 ms)

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