## Report on Identified Refactoring Opportunities for (SC/ST) Refactoring

The tool identifies the Control-Fields and conditional constructs (Switch/If) that use these Control-Fields to simulate the (SC / ST) refactoring. It prioritizes the Control-Fields (refactoring opportunities) based on the following criteria:

- Number of conditional constructs that switch on Control-Field
  Group i represents i different conditional constructs where the Control-Field is used
- 2. Average size of the conditional body
- 3. Number of control values
  - 2-3 control values
  - 3-6 control values
  - 6-n control values
- 4. Presence of conditional constructs with respect to the class of declaration (COD) of Control-Field
  - In COD (A)
  - Outside (B)
  - Mixed (C)
- 5. Qualified for SC or ST
- 6. Static Field
- 7. Have subclasses already

## Input Benchmark Statistics:

No. Of Classes: 325

No. Of Primitive Felds: 433

No. Of Control-Fields for Subclass Pattern: 3 No. Of Control-Fields for State pattern: 2

Total No. Of Control-Fields: 5

Us	ses	es Replace Type Code with Subclass (SC)		Uses	Replace Type Code with State (ST)	
	8	<math.geom2d.conic.circle2d, direct=""></math.geom2d.conic.circle2d,>	(A)	9	<math.geom2d.conic.ellipse2d, direct=""></math.geom2d.conic.ellipse2d,>	(C)
	2	<pre><math.geom2d.conic.parabola2d,< td=""><td>(A)</td><td>2</td><td><pre><math.geom2d.curve.polycurve2d,< td=""><td>(A)</td></math.geom2d.curve.polycurve2d,<></pre></td></math.geom2d.conic.parabola2d,<></pre>	(A)	2	<pre><math.geom2d.curve.polycurve2d,< td=""><td>(A)</td></math.geom2d.curve.polycurve2d,<></pre>	(A)
		<pre><math.geom2d.conic.hyperbolabranch 2d,="" positive=""></math.geom2d.conic.hyperbolabranch></pre>	(A)			

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