

Coverage Report

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I utilized the Surefire and JaCoCo plug-ins for Maven to help test my program, as well as JUnit 5 within the Eclipse IDE.

The following table summarizes code coverage results reported by JaCoCo:

Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
30 of 1335	97%	3 of 304	99%	5	191	6	269	2	39	0	8

The following table summarizes the final coverage results reported within the Eclipse IDE:

	Coverage	Covered Instructions	Missed Instructions	Total Instructions
Chess.java	97.4%	1,088	29	1,117
Piece.java	100%	213	0	213
(Total)	97.8%	1,301	29	1,330

The three branches I am missing are within the following lines:

- Chess.java, line 443:
(Branches missing: 1 of 4)
`if (board[y][x] != null && board[y][x] != to)`
- Piece.java, line 62:
(Branches missing: 2 of 8)
`return ((xFrom == xTo && yFrom != yTo) ||
 (xFrom != xTo && yFrom == yTo));`

I have not yet determined which branches are missing and why.

Despite these small exceptions, overall I believe that the code coverage achieved is enough to inspire a high level of confidence in the reliability of the program.