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PMD report

Problems found

#	File	Line	Problem
1	D:\ASU MS IN CS COURSE CONTENT AND ALL\SEMESTERS COURSES CONTENT\SPRING 2023\CSE 565 Software Verification Validation and Testing\ASSIGNMENTS\Assignment 4 - Decision Code Coverage\CSE 565 SVVT Assignment 4\src\StaticAnalysis.java	4	All classes, interfaces, enums and annotations must belong to a named package
2	D:\ASU MS IN CS COURSE CONTENT AND ALL\SEMESTERS COURSES CONTENT\SPRING 2023\CSE 565 Software Verification Validation and Testing\ASSIGNMENTS\Assignment 4 - Decision Code Coverage\CSE 565 SVVT Assignment 4\src\StaticAnalysis.java	4	Class comments are required
3	D:\ASU MS IN CS COURSE CONTENT AND ALL\SEMESTERS COURSES CONTENT\SPRING 2023\CSE 565 Software Verification Validation and Testing\ASSIGNMENTS\Assignment 4 - Decision Code Coverage\CSE 565 SVVT Assignment 4\src\StaticAnalysis.java	5	All methods are static. Consider using a utility class instead. Alternatively, you could add a private constructor or make the class abstract to silence this warning.
4	D:\ASU MS IN CS COURSE CONTENT AND ALL\SEMESTERS COURSES CONTENT\SPRING 2023\CSE 565 Software Verification Validation and Testing\ASSIGNMENTS\Assignment 4 - Decision Code Coverage\CSE 565 SVVT Assignment 4\src\StaticAnalysis.java	6	Parameter 'args' is not assigned and could be declared final
5	D:\ASU MS IN CS COURSE CONTENT AND ALL\SEMESTERS COURSES CONTENT\SPRING 2023\CSE 565 Software Verification Validation and Testing\ASSIGNMENTS\Assignment 4 - Decision Code Coverage\CSE 565 SVVT Assignment 4\src\StaticAnalysis.java	6	Public method and constructor comments are required
6	D:\ASU MS IN CS COURSE CONTENT AND ALL\SEMESTERS COURSES CONTENT\SPRING 2023\CSE 565 Software Verification Validation and Testing\ASSIGNMENTS\Assignment 4 - Decision Code Coverage\CSE 565 SVVT Assignment 4\src\StaticAnalysis.java	9	Local variable 'value' could be declared final
7	D:\ASU MS IN CS COURSE CONTENT AND ALL\SEMESTERS COURSES CONTENT\SPRING 2023\CSE 565 Software Verification Validation and Testing\ASSIGNMENTS\Assignment 4 - Decision Code Coverage\CSE 565 SVVT Assignment 4\src\StaticAnalysis.java	10	System.out.println is used
8	D:\ASU MS IN CS COURSE CONTENT AND ALL\SEMESTERS COURSES CONTENT\SPRING 2023\CSE 565 Software Verification Validation and Testing\ASSIGNMENTS\Assignment 4 - Decision Code Coverage\CSE 565 SVVT Assignment 4\src\StaticAnalysis.java	13	Public method and constructor comments are required
9	D:\ASU MS IN CS COURSE CONTENT AND ALL\SEMESTERS COURSES CONTENT\SPRING 2023\CSE 565 Software Verification Validation and Testing\ASSIGNMENTS\Assignment 4 - Decision Code Coverage\CSE 565 SVVT Assignment 4\src\StaticAnalysis.java	15	Avoid unused local variables such as 'weight'.
10	D:\ASU MS IN CS COURSE CONTENT AND ALL\SEMESTERS COURSES CONTENT\SPRING	15	Local variable 'weight' could be declared final

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2023\CSE 565 Software Verification Validation and Testing\ASSIGNMENTS\Assignment 4 - Decision Code Coverage\CSE 565 SVVT Assignment 4\src\StaticAnalysis.java

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- 11 2023\CSE 565 Software Verification Validation and Testing\ASSIGNMENTS\Assignment 4 Decision Code Coverage\CSE 565 SVVT Assignment 4\src\StaticAnalysis.java
- 16 Avoid unused local variables such as 'length'.

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- 12 2023\CSE 565 Software Verification Validation and Testing\ASSIGNMENTS\Assignment 4 Decision Code Coverage\CSE 565 SVVT Assignment 4\src\StaticAnalysis.java
- 16 Local variable 'length' could be declared final

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- 13 2023\CSE 565 Software Verification Validation and Testing\ASSIGNMENTS\Assignment 4 Decision Code Coverage\CSE 565 SVVT Assignment 4\src\StaticAnalysis.java
- 19 Parameter 'length' is not assigned and could be declared final

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- 14 2023\CSE 565 Software Verification Validation and Testing\ASSIGNMENTS\Assignment 4 Decision Code Coverage\CSE 565 SVVT Assignment 4\src\StaticAnalysis.java
- Parameter 'product' is not
 assigned and could be declared
 final

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- 15 2023\CSE 565 Software Verification Validation and Testing\ASSIGNMENTS\Assignment 4 Decision Code Coverage\CSE 565 SVVT Assignment 4\src\StaticAnalysis.java
- 19 Parameter 'weight' is not assigned and could be declared final

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- 16 2023\CSE 565 Software Verification Validation and Testing\ASSIGNMENTS\Assignment 4 Decision Code Coverage\CSE 565 SVVT Assignment 4\src\StaticAnalysis.java
- 19 Public method and constructor comments are required

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- 17 2023\CSE 565 Software Verification Validation and Testing\ASSIGNMENTS\Assignment 4 Decision Code Coverage\CSE 565 SVVT Assignment 4\src\StaticAnalysis.java
- 21 Found 'DD'-anomaly for variable 'cost' (lines '21'-'26').

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- 18 2023\CSE 565 Software Verification Validation and Testing\ASSIGNMENTS\Assignment 4 Decision Code Coverage\CSE 565 SVVT Assignment 4\src\StaticAnalysis.java
- 21 Found 'DD'-anomaly for variable 'cost' (lines '21'-'30').

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- 19 2023\CSE 565 Software Verification Validation and Testing\ASSIGNMENTS\Assignment 4 Decision Code Coverage\CSE 565 SVVT Assignment 4\src\StaticAnalysis.java
- The initializer for variable 'cost'
 21 is never used (overwritten on lines 26 and 30)

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- 20 2023\CSE 565 Software Verification Validation and Testing\ASSIGNMENTS\Assignment 4 Decision Code Coverage\CSE 565 SVVT Assignment 4\src\StaticAnalysis.java
- 22 Found 'DD'-anomaly for variable 'output' (lines '22'-'34').

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D:\ASU MS IN CS COURSE CONTENT AND ALL\SEMESTERS COURSES CONTENT\SPRING 21 2023\CSE 565 Software Verification Validation and Testing\ASSIGNMENTS\Assignment 4 - Decision Code Coverage\CSE 565 SVVT Assignment 4\src\StaticAnalysis.java	22	Found 'DD'-anomaly for variable 'output' (lines '22'-'36').
D:\ASU MS IN CS COURSE CONTENT AND ALL\SEMESTERS COURSES CONTENT\SPRING 22 2023\CSE 565 Software Verification Validation and Testing\ASSIGNMENTS\Assignment 4 - Decision Code Coverage\CSE 565 SVVT Assignment 4\src\StaticAnalysis.java	22	The initializer for variable 'output' is never used (overwritten on lines 34 and 36).
D:\ASU MS IN CS COURSE CONTENT AND ALL\SEMESTERS COURSES CONTENT\SPRING 23 2023\CSE 565 Software Verification Validation and Testing\ASSIGNMENTS\Assignment 4 - Decision Code Coverage\CSE 565 SVVT Assignment 4\src\StaticAnalysis.java	24	Avoid using Literals in Conditional Statements
D:\ASU MS IN CS COURSE CONTENT AND ALL\SEMESTERS COURSES CONTENT\SPRING 24 2023\CSE 565 Software Verification Validation and Testing\ASSIGNMENTS\Assignment 4 - Decision Code Coverage\CSE 565 SVVT Assignment 4\src\StaticAnalysis.java	24	<u>Use equals() to compare object references.</u>
D:\ASU MS IN CS COURSE CONTENT AND ALL\SEMESTERS COURSES CONTENT\SPRING 25 2023\CSE 565 Software Verification Validation and Testing\ASSIGNMENTS\Assignment 4 - Decision Code Coverage\CSE 565 SVVT Assignment 4\src\StaticAnalysis.java	24	<u>Use equals() to compare strings</u> <u>instead of '==' or '!='</u>
D:\ASU MS IN CS COURSE CONTENT AND ALL\SEMESTERS COURSES CONTENT\SPRING 26 2023\CSE 565 Software Verification Validation and Testing\ASSIGNMENTS\Assignment 4 - Decision Code Coverage\CSE 565 SVVT Assignment 4\src\StaticAnalysis.java	33	Avoid using Literals in Conditional Statements
D:\ASU MS IN CS COURSE CONTENT AND ALL\SEMESTERS COURSES CONTENT\SPRING 27 2023\CSE 565 Software Verification Validation and Testing\ASSIGNMENTS\Assignment 4 - Decision Code Coverage\CSE 565 SVVT Assignment 4\src\StaticAnalysis.java	34	Avoid using ifelse statements without curly braces
D:\ASU MS IN CS COURSE CONTENT AND ALL\SEMESTERS COURSES CONTENT\SPRING 28 2023\CSE 565 Software Verification Validation and Testing\ASSIGNMENTS\Assignment 4 - Decision Code Coverage\CSE 565 SVVT Assignment 4\src\StaticAnalysis.java	34	This statement should have braces
D:\ASU MS IN CS COURSE CONTENT AND ALL\SEMESTERS COURSES CONTENT\SPRING 29 2023\CSE 565 Software Verification Validation and Testing\ASSIGNMENTS\Assignment 4 - Decision Code Coverage\CSE 565 SVVT Assignment 4\src\StaticAnalysis.java	36	Avoid using ifelse statements without curly braces
D:\ASU MS IN CS COURSE CONTENT AND ALL\SEMESTERS COURSES CONTENT\SPRING 30 2023\CSE 565 Software Verification Validation and Testing\ASSIGNMENTS\Assignment 4 - Decision Code Coverage\CSE 565 SVVT Assignment 4\src\StaticAnalysis.java	36	This statement should have braces