

Report Banner - Edit rsm.cfg File

Resource Standard Metrics™ for C, C++, C# and Java

Version 7.75 - mSquaredTechnologies.com

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License File: C:\Program Files (x86)\MSquared\M2 RSM\rsm.lic

Config. File: C:\Program Files (x86)\MSquared\M2 RSM\rsm.cfg

Command Line: -H -OC:\Users\Jared\M2 RSM Wizard\output\output.htm -i -o
-SClass/Object Metrics and Analysis -FC:\Users\Jared\M2 RS
M Wizard\input\rsm_file_list.lst

Class/Object Metrics and Analysis

~~ Function Metrics ~~

~~ Class/Struct Metrics ~~

File: <C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\Controller\ControlHandler.java>

Package Begin: Controller

Class: Controller.ControlHandler

Attributes	Publ 0	Prot 0	Private 6	Total	6
Methods	Publ 10	Prot 0	Private 0	Total	10
LOC 105	eLOC 82	lLOC 37	Comment 9	Lines	125

Package End: Controller

~~ Total File Summary ~~

LOC 114	eLOC 91	lLOC 46	Comment 9	Lines	138
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~~ File Functional Summary ~~

File Function Count....:	10		
Total Function LOC.....:	91	Total Function Pts LOC :	2.2
Total Function eLOC.....:	69	Total Function Pts eLOC:	1.7
Total Function lLOC.....:	33	Total Function Pts lLOC:	0.9
Total Function Params ..:	10	Total Function Return ..:	10
Total Cyclo Complexity :	26	Total Function Complex.:	46

Max Function LOC	49	Average Function LOC ...:	9.10
Max Function eLOC	41	Average Function eLOC ..:	6.90
Max Function lLOC	23	Average Function lLOC ..:	3.30

End of File: <C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\Controller\ControlHandler.java>

File: <C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\Model\Arrow.java>

Package Begin: Model

Class: Model.Arrow

Attributes	Publ 0	Prot 0	Private 6	Total	6
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Methods	Publ 8	Prot 0	Private 0	Total	8
LOC 51	eLOC 42	lLOC 33	Comment 13	Lines	74

Package End: Model

~~ Total File Summary ~~

LOC 53	eLOC 44	lLOC 35	Comment 13	Lines	80
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~~ File Functional Summary ~~

File Function Count.....:	8				
Total Function LOC.....:	44	Total Function Pts LOC :		1.0	
Total Function eLOC.....:	36	Total Function Pts eLOC:		0.8	
Total Function lLOC.....:	28	Total Function Pts lLOC:		0.7	
Total Function Params .:	11	Total Function Return .:		8	
Total Cyclo Complexity :	8	Total Function Complex.:		27	
-----	-----	-----	-----	-----	-----
Max Function LOC	18	Average Function LOC ..:		5.50	
Max Function eLOC	17	Average Function eLOC .:		4.50	
Max Function lLOC	16	Average Function lLOC .:		3.50	

End of File: <C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\Model\Arrow.java>

File: <C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\Model\BeginShape.java>

Package Begin: Model

Class: Model.BeginShape

Inheritance: Shape

Attributes	Publ 1	Prot 0	Private 0	Total	1
Methods	Publ 7	Prot 0	Private 0	Total	7
LOC 60	eLOC 49	lLOC 30	Comment 11	Lines	80

Package End: Model

~~ Total File Summary ~~

LOC 63	eLOC 52	lLOC 33	Comment 11	Lines	86
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~~ File Functional Summary ~~

File Function Count.....:	7				
Total Function LOC.....:	53	Total Function Pts LOC :		1.2	
Total Function eLOC.....:	43	Total Function Pts eLOC:		1.0	
Total Function lLOC.....:	29	Total Function Pts lLOC:		0.6	
Total Function Params .:	8	Total Function Return .:		7	
Total Cyclo Complexity :	10	Total Function Complex.:		25	
-----	-----	-----	-----	-----	-----
Max Function LOC	25	Average Function LOC ..:		7.57	
Max Function eLOC	21	Average Function eLOC .:		6.14	
Max Function lLOC	13	Average Function lLOC .:		4.14	

End of File: <C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\Model\BeginShape.java>

File: <C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\Model\BeginShape.java>

[Package Begin:](#) **Model**

[Class:](#) **Model.CheckDiagram**

Attributes	Publ 0	Prot 0	Private 0	Total	0
Methods	Publ 1	Prot 0	Private 0	Total	1
LOC 28	eLOC 24	lLOC 15	Comment 0	Lines	31

[Package End:](#) **Model**

~~ Total File Summary ~~

LOC 33	eLOC 29	lLOC 20	Comment 0	Lines	41
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~~ File Functional Summary ~~

File Function Count.....	1			
Total Function LOC.....	26	Total Function Pts LOC :		0.6
Total Function eLOC.....	23	Total Function Pts eLOC:		0.5
Total Function lLOC.....	15	Total Function Pts lLOC:		0.4
Total Function Params ..	2	Total Function Return ..		1
Total Cyclo Complexity :	7	Total Function Complex..		10
-----	-----	-----	-----	-----
Max Function LOC	26	Average Function LOC ...		26.00
Max Function eLOC	23	Average Function eLOC ..		23.00
Max Function lLOC	15	Average Function lLOC ..		15.00

End of File: [C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\Model\CheckDiagram.java](#)

File: [C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\Model\ConditionShape.java](#)

[Package Begin:](#) **Model**

[Class:](#) **Model.ConditionShape**

Inheritance: **Shape**

Attributes	Publ 1	Prot 0	Private 2	Total	3
Methods	Publ 9	Prot 0	Private 0	Total	9
LOC 58	eLOC 47	lLOC 27	Comment 11	Lines	77

[Package End:](#) **Model**

~~ Total File Summary ~~

LOC 62	eLOC 51	lLOC 31	Comment 11	Lines	84
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~~ File Functional Summary ~~

File Function Count.....	7			
Total Function LOC.....	44	Total Function Pts LOC :		1.2
Total Function eLOC.....	35	Total Function Pts eLOC:		1.0
Total Function lLOC.....	21	Total Function Pts lLOC:		0.6
Total Function Params ..	7	Total Function Return ..		6
Total Cyclo Complexity :	12	Total Function Complex..		25
-----	-----	-----	-----	-----
Max Function LOC	25	Average Function LOC ...		6.29
Max Function eLOC	21	Average Function eLOC ..		5.00
Max Function lLOC	13	Average Function lLOC ..		3.00

End of File: <C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\Model\ConditionShape.java>

File: <C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\Model\EndShape.java>

Package Begin: **Model**

Class: **Model.EndShape**

Inheritance: **Shape**

Attributes	Publ 0	Prot 0	Private 1	Total	1
Methods	Publ 7	Prot 0	Private 0	Total	7
LOC 60	eLOC 49	lLOC 30	Comment 11	Lines	80

Package End: **Model**

~~ Total File Summary ~~

LOC 63	eLOC 52	lLOC 33	Comment 11	Lines	88
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~~ File Functional Summary ~~

File Function Count....:	7				
Total Function LOC.....:	53	Total Function Pts LOC :		1.2	
Total Function eLOC.....:	43	Total Function Pts eLOC:		1.0	
Total Function lLOC.....:	29	Total Function Pts lLOC:		0.6	
Total Function Params ..:	8	Total Function Return ..:		7	
Total Cyclo Complexity :	10	Total Function Complex.:		25	
-----	-----	-----	-----	-----	-----
Max Function LOC	25	Average Function LOC ..:		7.57	
Max Function eLOC	21	Average Function eLOC ..:		6.14	
Max Function lLOC	13	Average Function lLOC ..:		4.14	

End of File: <C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\Model\EndShape.java>

File: <C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\Model\Flowchart.java>

Package Begin: **Model**

Nested Class: **Model.Flowchart.DiffResult**

Attributes	Publ 0	Prot 0	Private 2	Total	2
Methods	Publ 1	Prot 0	Private 0	Total	1
LOC 8	eLOC 6	lLOC 4	Comment 3	Lines	8

Nested Class: **Model.Flowchart.Vertex<T>**

Attributes	Publ 0	Prot 0	Private 1	Total	1
Methods	Publ 3	Prot 0	Private 0	Total	3
LOC 15	eLOC 11	lLOC 4	Comment 0	Lines	16

Nested Class: **Model.Flowchart.Edge<T>**

Attributes	Publ 0	Prot 0	Private 2	Total	2
Methods	Publ 2	Prot 0	Private 0	Total	2
LOC 15	eLOC 12	lLOC 5	Comment 0	Lines	15

Class: **Model.Flowchart**

Attributes	Publ 0	Prot 0	Private 2	Total	2
Methods	Publ 3	Prot 0	Private 0	Total	3
LOC 110	eLOC 79	lLOC 27	Comment 31	Lines	159

Package End: Model

~~ Total File Summary ~~

LOC 114	eLOC 83	lLOC 31	Comment 31	Lines	169
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~~ File Functional Summary ~~

File Function Count....:	9				
Total Function LOC....:	87	Total Function Pts LOC :		2.2	
Total Function eLOC....:	61	Total Function Pts eLOC:		1.6	
Total Function lLOC....:	20	Total Function Pts lLOC:		0.6	
Total Function Params .:	8	Total Function Return .:		15	
Total Cyclo Complexity :	29	Total Function Complex.:		52	
-----	-----	-----	-----	-----	-----
Max Function LOC	27	Average Function LOC ..:		9.67	
Max Function eLOC	19	Average Function eLOC .:		6.78	
Max Function lLOC	6	Average Function lLOC .:		2.22	

End of File: <C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\Model\Flowchart.java>

File: <C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\Model\InputOutputShape.java>

Package Begin: Model

Class: Model.InputOutputShape

Inheritance: Shape

Attributes	Publ 0	Prot 0	Private 13	Total	13
Methods	Publ 8	Prot 0	Private 0	Total	8
LOC 78	eLOC 67	lLOC 50	Comment 17	Lines	115

Package End: Model

~~ Total File Summary ~~

LOC 83	eLOC 72	lLOC 55	Comment 17	Lines	123
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~~ File Functional Summary ~~

File Function Count....:	8				
Total Function LOC....:	65	Total Function Pts LOC :		1.6	
Total Function eLOC....:	55	Total Function Pts eLOC:		1.4	
Total Function lLOC....:	43	Total Function Pts lLOC:		1.0	
Total Function Params .:	11	Total Function Return .:		9	
Total Cyclo Complexity :	10	Total Function Complex.:		30	
-----	-----	-----	-----	-----	-----
Max Function LOC	17	Average Function LOC ..:		8.13	
Max Function eLOC	15	Average Function eLOC .:		6.88	
Max Function lLOC	13	Average Function lLOC .:		5.38	

End of File: <C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\Model\InputOutputShape.java>

File: <C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\Model\InstructionShape.java>

Package Begin: **Model**

Class: **Model.InstructionShape**

Inheritance: **Shape**

Attributes	Publ 0	Prot 0	Private 3	Total	3
Methods	Publ 7	Prot 0	Private 0	Total	7
LOC 57	eLOC 48	lLOC 29	Comment 15	Lines	77

Package End: **Model**

~~ Total File Summary ~~

LOC 60	eLOC 51	lLOC 32	Comment 15	Lines	86
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~~ File Functional Summary ~~

File Function Count....:	7		
Total Function LOC.....:	49	Total Function Pts LOC :	1.1
Total Function eLOC.....:	41	Total Function Pts eLOC:	1.0
Total Function lLOC.....:	26	Total Function Pts lLOC:	0.6
Total Function Params ..:	8	Total Function Return ..:	7
Total Cyclo Complexity :	13	Total Function Complex.:	28
-----	-----	-----	-----
Max Function LOC	23	Average Function LOC ...:	7.00
Max Function eLOC	21	Average Function eLOC ..:	5.86
Max Function lLOC	13	Average Function lLOC ..:	3.71

End of File: <C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\Model\InstructionShape.java>

File: <C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\Model\MethodShape.java>

Package Begin: **Model**

Class: **Model.MethodShape**

Inheritance: **Shape**

Attributes	Publ 0	Prot 0	Private 3	Total	3
Methods	Publ 7	Prot 0	Private 0	Total	7
LOC 58	eLOC 50	lLOC 30	Comment 12	Lines	78

Package End: **Model**

~~ Total File Summary ~~

LOC 61	eLOC 53	lLOC 33	Comment 12	Lines	84
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~~ File Functional Summary ~~

File Function Count....:	7		
Total Function LOC.....:	49	Total Function Pts LOC :	1.2
Total Function eLOC.....:	42	Total Function Pts eLOC:	1.0
Total Function lLOC.....:	27	Total Function Pts lLOC:	0.6
Total Function Params ..:	8	Total Function Return ..:	7
Total Cyclo Complexity :	13	Total Function Complex.:	28
-----	-----	-----	-----
Max Function LOC	23	Average Function LOC ...:	7.00
Max Function eLOC	21	Average Function eLOC ..:	6.00
Max Function lLOC	13	Average Function lLOC ..:	3.86

End of File: [C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\Model\MethodShape.java](#)

File: [C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\Model\problemContainer.java](#)

Package Begin: **Model**

Class: **Model.problemContainer**

Attributes	Publ 0	Prot 0	Private 0	Total	0
Methods	Publ 1	Prot 0	Private 0	Total	1
LOC 103	eLOC 101	lLOC 95	Comment 5	Lines	115

Package End: **Model**

~~ Total File Summary ~~

LOC 107	eLOC 105	lLOC 99	Comment 5	Lines	123
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~~ File Functional Summary ~~

File Function Count....:	1				
Total Function LOC.....:	101	Total Function Pts LOC :		2.0	
Total Function eLOC.....:	100	Total Function Pts eLOC:		2.0	
Total Function lLOC.....:	95	Total Function Pts lLOC:		1.9	
Total Function Params ..:	0	Total Function Return ..:		1	
Total Cyclo Complexity :	1	Total Function Complex.:		2	
-----	-----	-----	-----	-----	-----
Max Function LOC	101	Average Function LOC ..:		101.00	
Max Function eLOC	100	Average Function eLOC ..:		100.00	
Max Function lLOC	95	Average Function lLOC ..:		95.00	

End of File: [C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\Model\problemContainer.java](#)

File: [C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\Model\Repository.java](#)

Package Begin: **Model**

Class: **Model.Repository**

Inheritance: **Observable**

Attributes	Publ 0	Prot 0	Private 6	Total	6
Methods	Publ 17	Prot 0	Private 1	Total	18
LOC 140	eLOC 110	lLOC 66	Comment 48	Lines	208

Package End: **Model**

~~ Total File Summary ~~

LOC 143	eLOC 113	lLOC 69	Comment 48	Lines	215
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~~ File Functional Summary ~~

File Function Count....:	18				
Total Function LOC.....:	132	Total Function Pts LOC :		2.7	
Total Function eLOC.....:	103	Total Function Pts eLOC:		2.1	
Total Function lLOC.....:	60	Total Function Pts lLOC:		1.3	

Total Function Params ..:	13	Total Function Return ..:	20
Total Cyclo Complexity ..:	37	Total Function Complex.:	70

Max Function LOC	25	Average Function LOC ..:	7.33
Max Function eLOC	23	Average Function eLOC ..:	5.72
Max Function lLOC	14	Average Function lLOC ..:	3.33

End of File: <C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\Model\Repository.java>

File: <C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\Model\RepositoryInterface.java>

Package Begin: Model

Interface: Model.RepositoryInterface

Attributes	Publ 0	Prot 0	Private 0	Total	0
Methods	Publ 0	Prot 0	Private 13	Total	13
LOC 15	eLOC 14	lLOC 13	Comment 0	Lines	14

Package End: Model

~~ Total File Summary ~~

LOC 18	eLOC 17	lLOC 16	Comment 0	Lines	22
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End of File: <C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\Model\RepositoryInterface.java>

File: <C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\Model\Shape.java>

Package Begin: Model

Class: Model.Shape

Attributes	Publ 0	Prot 2	Private 5	Total	7
Methods	Publ 21	Prot 0	Private 0	Total	21
LOC 78	eLOC 58	lLOC 32	Comment 52	Lines	151

Package End: Model

~~ Total File Summary ~~

LOC 83	eLOC 63	lLOC 37	Comment 52	Lines	163
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~~ File Functional Summary ~~

File Function Count.....:	18		
Total Function LOC.....:	68	Total Function Pts LOC :	1.6
Total Function eLOC.....:	49	Total Function Pts eLOC:	1.2
Total Function lLOC.....:	25	Total Function Pts lLOC:	0.7
Total Function Params ..:	11	Total Function Return ..:	20
Total Cyclo Complexity ..:	24	Total Function Complex.:	55

Max Function LOC	14	Average Function LOC ...:	3.78
Max Function eLOC	11	Average Function eLOC ..:	2.72
Max Function lLOC	5	Average Function lLOC ..:	1.39

End of File: <C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\Model\Shape.java>

File: <C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\Model\ShapeType.java>

Package Begin: Model

Package End: Model

~~ Total File Summary ~~

LOC 4	eLOC 3	lLOC 1	Comment 0	Lines	5
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End of File: <C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\Model\ShapeType.java>

File: <C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\Model\VariableShape.java>

Package Begin: Model

Class: Model.VariableShape

Inheritance: Shape

Attributes	Publ 0	Prot 0	Private 2	Total	2
Methods	Publ 7	Prot 0	Private 0	Total	7
LOC 60	eLOC 49	lLOC 28	Comment 11	Lines	79

Package End: Model

~~ Total File Summary ~~

LOC 63	eLOC 52	lLOC 31	Comment 11	Lines	84
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~~ File Functional Summary ~~

File Function Count....:	7			
Total Function LOC.....:	51	Total Function Pts LOC :	1.2	
Total Function eLOC.....:	41	Total Function Pts eLOC:	1.0	
Total Function lLOC.....:	26	Total Function Pts lLOC:	0.6	
Total Function Params ..:	8	Total Function Return ..:	7	
Total Cyclo Complexity :	13	Total Function Complex.:	28	
Max Function LOC	25	Average Function LOC ...:	7.29	
Max Function eLOC	21	Average Function eLOC ..:	5.86	
Max Function lLOC	13	Average Function lLOC ..:	3.71	

End of File: <C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\Model\VariableShape.java>

File: <C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\View\Blackboard.java>

Package Begin: View

Class: View.Blackboard

Inheritance: JPanel

Attributes	Publ 0	Prot 0	Private 3	Total	3
Methods	Publ 12	Prot 0	Private 0	Total	12
LOC 62	eLOC 48	lLOC 17	Comment 2	Lines	76

[Package End: View](#)

~~ Total File Summary ~~

LOC 74	eLOC 60	lLOC 29	Comment 2	Lines	91
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~~ File Functional Summary ~~

File Function Count.....	12				
Total Function LOC.....	49	Total Function Pts LOC :		1.4	
Total Function eLOC.....	36	Total Function Pts eLOC:		1.1	
Total Function lLOC.....	14	Total Function Pts lLOC:		0.5	
Total Function Params ..	9	Total Function Return ..		12	
Total Cyclo Complexity :	19	Total Function Complex..		40	
-----	-----	-----	-----	-----	-----
Max Function LOC	20	Average Function LOC ...		4.08	
Max Function eLOC	13	Average Function eLOC ..		3.00	
Max Function lLOC	8	Average Function lLOC ..		1.17	

End of File: [C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\View\Blackboard.java](#)

File: [C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\View\CodePanel.java](#)

[Package Begin: View](#)

[Class: View.CodePanel](#)

Inheritance: [JPanel](#)

Attributes	Publ 0	Prot 0	Private 3	Total	3
Methods	Publ 1	Prot 0	Private 1	Total	2
LOC 25	eLOC 20	lLOC 15	Comment 0	Lines	26

[Package End: View](#)

~~ Total File Summary ~~

LOC 36	eLOC 31	lLOC 26	Comment 0	Lines	44
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~~ File Functional Summary ~~

File Function Count.....	2				
Total Function LOC.....	19	Total Function Pts LOC :		0.7	
Total Function eLOC.....	15	Total Function Pts eLOC:		0.6	
Total Function lLOC.....	12	Total Function Pts lLOC:		0.5	
Total Function Params ..	1	Total Function Return ..		2	
Total Cyclo Complexity :	3	Total Function Complex..		6	
-----	-----	-----	-----	-----	-----
Max Function LOC	11	Average Function LOC ...		9.50	
Max Function eLOC	10	Average Function eLOC ..		7.50	
Max Function lLOC	9	Average Function lLOC ..		6.00	

End of File: [C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\View\CodePanel.java](#)

File: [C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\View\fileMenu.java](#)

[Package Begin:](#) **View**

[Class:](#) **View.fileMenu**

Inheritance: **JMenu**

Attributes	Publ 0	Prot 0	Private 3	Total	3
Methods	Publ 2	Prot 0	Private 0	Total	2
LOC 29	eLOC 25	lLOC 18	Comment 4	Lines	39

[Package End:](#) **View**

~~ Total File Summary ~~

LOC 33	eLOC 29	lLOC 22	Comment 4	Lines	47
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~~ File Functional Summary ~~

File Function Count.....	2				
Total Function LOC.....	23	Total Function Pts LOC :		0.6	
Total Function eLOC.....	20	Total Function Pts eLOC:		0.5	
Total Function lLOC.....	15	Total Function Pts lLOC:		0.4	
Total Function Params ..	2	Total Function Return ..		2	
Total Cyclo Complexity :	5	Total Function Complex.:		9	

Max Function LOC	12	Average Function LOC ...		11.50	
Max Function eLOC	11	Average Function eLOC ..		10.00	
Max Function lLOC	10	Average Function lLOC ..		7.50	

End of File: [C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\View\fileMenu.java](#)

File: [C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\View\FinalProject.java](#)

[Package Begin:](#) **View**

[Class:](#) **View.FinalProject**

Inheritance: **JFrame**

Attributes	Publ 3	Prot 0	Private 0	Total	3
Methods	Publ 2	Prot 0	Private 0	Total	2
LOC 81	eLOC 77	lLOC 72	Comment 5	Lines	95

[Package End:](#) **View**

~~ Total File Summary ~~

LOC 90	eLOC 86	lLOC 81	Comment 5	Lines	108
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~~ File Functional Summary ~~

File Function Count.....	2				
Total Function LOC.....	76	Total Function Pts LOC :		1.7	
Total Function eLOC.....	73	Total Function Pts eLOC:		1.6	
Total Function lLOC.....	69	Total Function Pts lLOC:		1.5	
Total Function Params ..	1	Total Function Return ..		2	
Total Cyclo Complexity :	2	Total Function Complex.:		5	

Max Function LOC	68	Average Function LOC ...		38.00	

Max Function eLOC	66	Average Function eLOC ..	36.50
Max Function lLOC	63	Average Function lLOC ..	34.50

End of File: <C:\Users\Jared\OneDrive\Documents\GitHub\FinalProject308\src\main\java\View\FinalProject.java>

~~ Total Metrics For 20 Files ~~

~~ Total Project Summary ~~

LOC 1357	eLOC 1137	lLOC 760	Comment 257	Lines	1881
Average per File, metric/20 files					
LOC 67	eLOC 56	lLOC 38	Comment 12	Lines	94

~~ Project Class/Struct Metrics ~~

Parent LOC Metrics Include Nested LOC Metrics

Class: [Controller.ControlHandler](#)

Attributes	Publ 0	Prot 0	Private 6	Total	6
Methods	Publ 10	Prot 0	Private 0	Total	10
LOC 105	eLOC 82	lLOC 37	Comment 9	Lines	125

Class: [Model.Arrow](#)

Attributes	Publ 0	Prot 0	Private 6	Total	6
Methods	Publ 8	Prot 0	Private 0	Total	8
LOC 51	eLOC 42	lLOC 33	Comment 13	Lines	74

Class: [Model.BeginShape](#)

Inheritance: [Shape](#)

Attributes	Publ 1	Prot 0	Private 0	Total	1
Methods	Publ 7	Prot 0	Private 0	Total	7
LOC 60	eLOC 49	lLOC 30	Comment 11	Lines	80

Class: [Model.CheckDiagram](#)

Attributes	Publ 0	Prot 0	Private 0	Total	0
Methods	Publ 1	Prot 0	Private 0	Total	1
LOC 28	eLOC 24	lLOC 15	Comment 0	Lines	31

Class: [Model.ConditionShape](#)

Inheritance: [Shape](#)

Attributes	Publ 1	Prot 0	Private 2	Total	3
Methods	Publ 9	Prot 0	Private 0	Total	9
LOC 58	eLOC 47	lLOC 27	Comment 11	Lines	77

Class: [Model.EndShape](#)

Inheritance: [Shape](#)

Attributes	Publ 0	Prot 0	Private 1	Total	1
Methods	Publ 7	Prot 0	Private 0	Total	7
LOC 60	eLOC 49	lLOC 30	Comment 11	Lines	80

Class: [Model.Flowchart](#)

Attributes	Publ 0	Prot 0	Private 2	Total	2
Methods	Publ 3	Prot 0	Private 0	Total	3
LOC 110	eLOC 79	lLOC 27	Comment 31	Lines	159

Nested Class: [Model.Flowchart.DiffResult](#)

Attributes	Publ 0	Prot 0	Private 2	Total	2
Methods	Publ 1	Prot 0	Private 0	Total	1
LOC 8	eLOC 6	lLOC 4	Comment 3	Lines	8

Nested Class: [Model.Flowchart.Vertex<T>](#)

Attributes	Publ 0	Prot 0	Private 1	Total	1
------------	--------	--------	-----------	-------	---

Methods	Publ 3	Prot 0	Private 0	Total	3
LOC 15	eLOC 11	lLOC 4	Comment 0	Lines	16

Class: Model.Flowchart.Vertex

Attributes	Publ 0	Prot 0	Private 0	Total	0
Methods	Publ 0	Prot 0	Private 0	Total	0
LOC 0	eLOC 0	lLOC 0	Comment 0	Lines	0

Nested Class: Model.Flowchart.Edge<T>

Attributes	Publ 0	Prot 0	Private 2	Total	2
Methods	Publ 2	Prot 0	Private 0	Total	2
LOC 15	eLOC 12	lLOC 5	Comment 0	Lines	15

Class: Model.Flowchart.Edge

Attributes	Publ 0	Prot 0	Private 0	Total	0
Methods	Publ 0	Prot 0	Private 0	Total	0
LOC 0	eLOC 0	lLOC 0	Comment 0	Lines	0

Class: Model.InputOutputShape

Inheritance: Shape

Attributes	Publ 0	Prot 0	Private 13	Total	13
Methods	Publ 8	Prot 0	Private 0	Total	8
LOC 78	eLOC 67	lLOC 50	Comment 17	Lines	115

Class: Model.InstructionShape

Inheritance: Shape

Attributes	Publ 0	Prot 0	Private 3	Total	3
Methods	Publ 7	Prot 0	Private 0	Total	7
LOC 57	eLOC 48	lLOC 29	Comment 15	Lines	77

Class: Model.MethodShape

Inheritance: Shape

Attributes	Publ 0	Prot 0	Private 3	Total	3
Methods	Publ 7	Prot 0	Private 0	Total	7
LOC 58	eLOC 50	lLOC 30	Comment 12	Lines	78

Class: Model.problemContainer

Attributes	Publ 0	Prot 0	Private 0	Total	0
Methods	Publ 1	Prot 0	Private 0	Total	1
LOC 103	eLOC 101	lLOC 95	Comment 5	Lines	115

Class: Model.Repository

Inheritance: Observable

Attributes	Publ 0	Prot 0	Private 6	Total	6
Methods	Publ 17	Prot 0	Private 1	Total	18
LOC 140	eLOC 110	lLOC 66	Comment 48	Lines	208

Class: Model.Shape

Attributes	Publ 0	Prot 2	Private 5	Total	7
Methods	Publ 21	Prot 0	Private 0	Total	21
LOC 78	eLOC 58	lLOC 32	Comment 52	Lines	151

Class: Model.VariableShape

Inheritance: Shape

Attributes	Publ 0	Prot 0	Private 2	Total	2
Methods	Publ 7	Prot 0	Private 0	Total	7
LOC 60	eLOC 49	lLOC 28	Comment 11	Lines	79

Class: View.Blackboard

Inheritance: JPanel

Attributes	Publ 0	Prot 0	Private 3	Total	3
Methods	Publ 12	Prot 0	Private 0	Total	12
LOC 62	eLOC 48	lLOC 17	Comment 2	Lines	76

Class: View.CodePanel

Inheritance: JPanel

Attributes	Publ 0	Prot 0	Private 3	Total	3
Methods	Publ 1	Prot 0	Private 1	Total	2
LOC 25	eLOC 20	lLOC 15	Comment 0	Lines	26

Class: [View.fileMenu](#)

Inheritance: [JMenu](#)

Attributes	Publ 0	Prot 0	Private 3	Total	3
Methods	Publ 2	Prot 0	Private 0	Total	2
LOC 29	eLOC 25	lLOC 18	Comment 4	Lines	39

Class: [View.FinalProject](#)

Inheritance: [JFrame](#)

Attributes	Publ 3	Prot 0	Private 0	Total	3
Methods	Publ 2	Prot 0	Private 0	Total	2
LOC 81	eLOC 77	lLOC 72	Comment 5	Lines	95

Total: All Parent Classes/Structs

Attributes	Publ 5	Prot 2	Private 58	Total	65
Methods	Publ 130	Prot 0	Private 2	Total	132
LOC 1243	eLOC 1025	lLOC 651	Comment 257	Lines	1685

~~ Project Class/Struct Analysis ~~

Total Classes/Structs ..	23	Total Methods	137
Total Nested Classes ...	3	Total Public Attributes:	5
Total Public Methods ...	130	Total Protected Attrib. .:	2
Total Protected Methods:	0	Total Private Attrib. .:	58
Total Private Methods ..	2	Total LOC	1243
Total Physical Lines ...	1685	Total lLOC	651
Total eLOC	1025	Total Interface Comp. .:	277
Total Cyclomatic Comp. .:	247	Total Return Points ...:	148
Total Parameters	129	Total Blank Lines	212
Total Comment Lines ...:	257		

Avg Physical Lines	73.26	Avg Methods	5.96
Avg Public Methods	5.65	Avg Public Attributes ..	0.22
Avg Protected Methods ..	0.00	Avg Protected Attrib. .:	0.09
Avg Private Methods ...:	0.09	Avg Private Attributes :	2.52
Avg LOC	54.04	Avg eLOC	44.57
Avg lLOC	28.30	Avg Cyclomatic Comp. ...:	10.74
Avg Interface Comp.	12.04	Avg Parameters	5.61
Avg Return Points	6.43	Avg Comment Lines	11.17

Max Physical Lines	208	Max Methods	21
Max Public Methods	21	Max Public Attributes ..	3
Max Protected Methods ..	0	Max Protected Attrib. .:	2
Max Private Methods ...:	1	Max Private Attributes :	13
Max LOC	140	Max eLOC	110
Max lLOC	95	Max Cyclomatic Comp. ...:	37
Max Interface Comp.	33	Max Parameters	13
Max Return Points	20	Max Comment Lines	52

Min Physical Lines	0	Min Methods	0
Min Public Methods	0	Min Public Attributes ..	0
Min Protected Methods ..	0	Min Protected Attrib. .:	0
Min Private Methods ...:	0	Min Private Attributes :	0
Min LOC	0	Min eLOC	0
Min lLOC	0	Min Cyclomatic Comp. ...:	0
Min Interface Comp.	0	Min Parameters	0
Min Return Points	0	Min Comment Lines	0

~~ Project Interface Metrics ~~

Interface: [Model.RepositoryInterface](#)

Attributes	Publ 0	Prot 0	Private 0	Total	0
Methods	Publ 0	Prot 0	Private 13	Total	13
LOC 15	eLOC 14	lLOC 13	Comment 0	Lines	14

Total: All Interfaces

Attributes	Publ 0	Prot 0	Private 0	Total	0
------------	--------	--------	-----------	-------	---

Methods	Publ 0	Prot 0	Private 13	Total
LOC 15	eLOC 14	lLOC 13	Comment 0	Lines 14

~~ Project Interface Analysis ~~

Total Interfaces	1	Total Methods	13
Total Public Methods ...	0	Total Public Attributes:	0
Total Protected Methods:	0	Total Protected Attrib.:	0
Total Private Methods ..	13	Total Private Attrib. ..	0
Total Physical Lines ...	14	Total LOC	15
Total eLOC	14	Total lLOC	13
Total Cyclomatic Comp. ..	0	Total Interface Comp. ..	0
Total Parameters	0	Total Return Points	0
Total Comment Lines	0	Total Blank Lines	0

Avg Physical Lines	14.00	Avg Methods	13.00
Avg Public Methods	0.00	Avg Public Attributes ..	0.00
Avg Protected Methods ..	0.00	Avg Protected Attrib. ..	0.00
Avg Private Methods	13.00	Avg Private Attributes :	0.00
Avg LOC	15.00	Avg eLOC	14.00
Avg lLOC	13.00	Avg Cyclomatic Comp. ...	0.00
Avg Interface Comp.	0.00	Avg Parameters	0.00
Avg Return Points	0.00	Avg Comment Lines	0.00

Max Physical Lines	14	Max Methods	13
Max Public Methods	0	Max Public Attributes ..	0
Max Protected Methods ..	0	Max Protected Attrib. ..	0
Max Private Methods	13	Max Private Attributes :	0
Max LOC	15	Max eLOC	14
Max lLOC	13	Max Cyclomatic Comp. ...	0
Max Interface Comp.	0	Max Parameters	0
Max Return Points	0	Max Comment Lines	0

Min Physical Lines	14	Min Methods	13
Min Public Methods	0	Min Public Attributes ..	0
Min Protected Methods ..	0	Min Protected Attrib. ..	0
Min Private Methods	13	Min Private Attributes :	0
Min LOC	15	Min eLOC	14
Min lLOC	13	Min Cyclomatic Comp. ...	0
Min Interface Comp.	0	Min Parameters	0
Min Return Points	0	Min Comment Lines	0

~~ Class Inheritance Tree ~~

D - Depth where base class depth = 0
 C - Number of direct child classes
 P - Number of direct parents, Multiple Inheritance > 1

+ **Controller.ControlHandler** [D0.C0]

+ **JFrame** [D0.C1]
 - View.FinalProject [D1.C0.P1]

+ **JMenu** [D0.C1]
 - View.fileMenu [D1.C0.P1]

+ **JPanel** [D0.C2]
 - View.Blackboard [D1.C0.P1]
 - View.CodePanel [D1.C0.P1]

+ **Model.Arrow** [D0.C0]

+ **Model.CheckDiagram** [D0.C0]

+ **Model.Flowchart** [D0.C0]

```

+ Model.Flowchart.DiffResult [D0.C0]

+ Model.Flowchart.Edge [D0.C0]

+ Model.Flowchart.Edge [D0.C0]

+ Model.Flowchart.Vertex [D0.C0]

+ Model.Flowchart.Vertex [D0.C0]

+ Model.Shape [D0.C7]
- Model.BeginShape [D1.C0.P1]
- Model.ConditionShape [D1.C0.P1]
- Model.EndShape [D1.C0.P1]
- Model.InputOutputShape [D1.C0.P1]
- Model.InstructionShape [D1.C0.P1]
- Model.MethodShape [D1.C0.P1]
- Model.VariableShape [D1.C0.P1]

+ Model.problemContainer [D0.C0]

+ Observable [D0.C1]
- Model.Repository [D1.C0.P1]

```

```

Total Classes      : 27
Total Base Classes : 15
Total Derived Classes: 12
Derived/Based Ratio : 0.80

Maximum Depth of Inheritance: 1
Average Depth of Inheritance: 0.44

Maximum Number of Direct Child Classes: 7
Average Number of Direct Child Classes: 0.44

```

```

-----

```

~~ Project Namespace/Package Metrics ~~

```

Namespace/Package: Controller
Total Classes 1      Total Functions 10      Avg Func/Class 10.00
Attributes  Publ 0      Prot 0      Private 6      Total 6
Methods     Publ 10     Prot 0      Private 0      Total 10
LOC 105      eLOC 82      lLOC 37      Comment 9      Lines 125

```

```

Namespace/Package: Model
Total Classes 19     Total Functions 117     Avg Func/Class 6.16
Attributes  Publ 2      Prot 2      Private 43     Total 47
Methods     Publ 103     Prot 0      Private 14     Total 117
LOC 956      eLOC 787      lLOC 505      Comment 237     Lines 1338

```

```

Namespace/Package: View
Total Classes 4      Total Functions 18      Avg Func/Class 4.50
Attributes  Publ 3      Prot 0      Private 9      Total 12
Methods     Publ 17     Prot 0      Private 1      Total 18
LOC 197      eLOC 170      lLOC 122      Comment 11      Lines 236

```

```

Total: All Namespaces/Packages
Total Classes 24     Total Functions 145     Avg Func/Class 6.04
Attributes  Publ 5      Prot 2      Private 58     Total 65
Methods     Publ 130     Prot 0      Private 15     Total 145
LOC 1258      eLOC 1039      lLOC 664      Comment 257     Lines 1699

```

```

-----

```

~~ Project Namespace/Package Analysis ~~

```

Total Namespace/Package:      3
Total Classes/Structs  ..      24  Total Methods .....:      145
Total Public Methods  ...      130  Total Public Attributes:      5

```


Total Protected Methods :	0	Total Protected Attrib. :	2
Total Private Methods .. :	15	Total Private Attrib. .. :	58
Total Physical Lines ... :	1699	Total LOC :	1258
Total eLOC :	1039	Total lLOC :	664
Total Cyclomatic Comp. . :	247	Total Interface Comp. .. :	277
Total Parameters :	129	Total Return Points ... :	148
Total Comment Lines :	257	Total Blank Lines :	212

Avg Classes/Structs :	8.00	Avg Methods :	48.33
Avg Public Methods :	43.33	Avg Public Attributes .. :	1.67
Avg Protected Methods .. :	0.00	Avg Protected Attrib. .. :	0.67
Avg Private Methods :	5.00	Avg Private Attributes : :	19.33
Avg LOC :	419.33	Avg eLOC :	346.33
Avg lLOC :	221.33	Avg Cyclomatic Comp. ... :	82.33
Avg Interface Comp. :	92.33	Avg Parameters :	43.00
Avg Return Points :	49.33	Avg Comment Lines :	85.67

Max Classes/Struct :	19	Max Methods :	117
Max Public Methods :	103	Max Public Attributes .. :	3
Max Protected Methods .. :	0	Max Protected Attrib. .. :	2
Max Private Methods :	14	Max Private Attributes : :	43
Max LOC :	956	Max eLOC :	787
Max lLOC :	505	Max Cyclomatic Comp. ... :	192
Max Interface Comp. :	226	Max Parameters :	106
Max Return Points :	120	Max Comment Lines :	237

Min Classes/Structs :	1	Min Methods :	10
Min Public Methods :	10	Min Public Attributes .. :	0
Min Protected Methods .. :	0	Min Protected Attrib. .. :	0
Min Private Methods :	0	Min Private Attributes : :	6
Min LOC :	105	Min eLOC :	82
Min lLOC :	37	Min Cyclomatic Comp. ... :	26
Min Interface Comp. :	20	Min Parameters :	10
Min Return Points :	10	Min Comment Lines :	9

~~ File Summary ~~

C Source Files *.c :	0	C/C++ Include Files *.h :	0
C++ Source Files *.c* .. :	0	C++ Include Files *.h* :	0
C# Source Files *.cs ... :	0	Java Source File *.jav* :	20
Other Source Files :	0		
Total File Count :	20		

Shareware evaluation licenses process only **20** files.
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