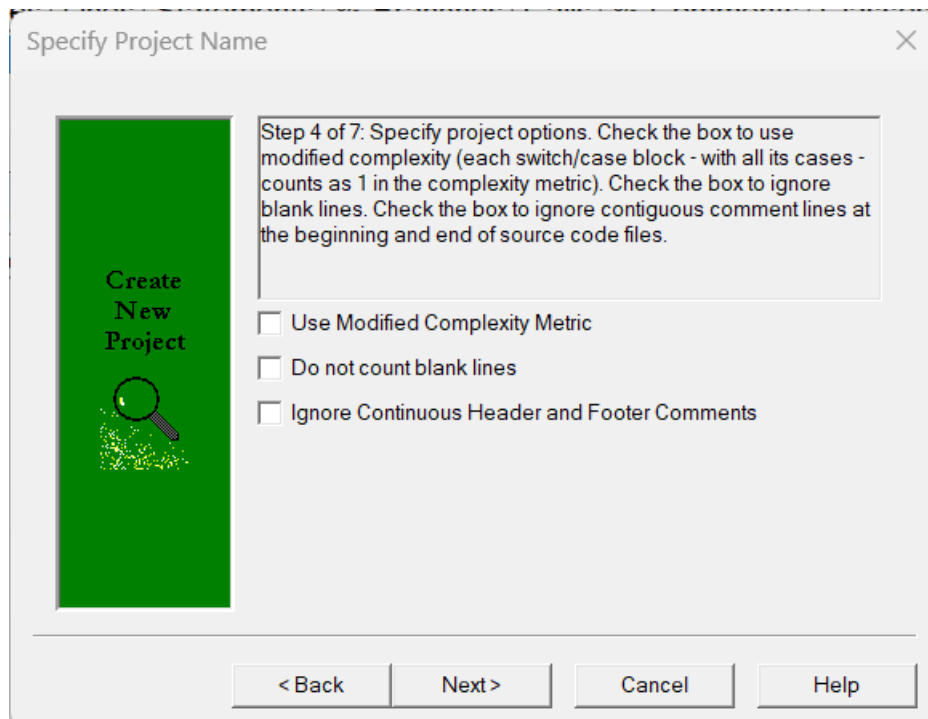


Default metrics:



SourceMonitor

File Edit View Window Help

Java Checkpoints In Project 'lab5+6' [Base Directory: 'C:\Users\layla\Downloads\java_files_for_source_monitor_labs\java_files_for_source_monitor_la...']

Checkpoint Name	Create...	Files	Lines	Statements	% Branches	Calls	% Comments	Classes	Methods/Class	Avg Stmt/Method	Max Complexity
lab5+6	10 Mar 2024	3	44	26	3.8	9	6.8	3	1.33	4.00	

Files in Java Project 'lab5+6', Checkpoint 'lab5+6' [Base Directory: 'C:\Users\layla\Downloads\java_files_for_source_monitor_labs\java_files_for_sourc...']

File Name	Lines	Statements	% Branches	Calls	% Comments	Classes	Methods/Class	Avg Stmt/Method	Max Complexity	Max I
Sample1.java	23	14	7.1	5	0.0	1	1.00	10.00	2	
Sample2.java	10	7	0.0	2	20.0	1	1.00	4.00	1	
Sample3.java	11	5	0.0	2	9.1	1	2.00	1.00	1	

For Help, press F1

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SourceMonitor

File Edit View Window Help

Files in Java Project 'lab5+6', Checkpoint 'lab5+6' [Base Directory: 'C:\Users\jayla\Downloads\java_files_for_source_monitor_labs\java_files_for_sourc...

File Name	Lines	Statements	% Branches	Calls	% Comments	Classes	Methods/Class	Avg Stmt/Method	Max Complexity	Max [
Sample1.java	23	14	7.1	5	0.0	1	1.00	10.00	2	
Sample2.java	10	7	0.0	2	20.0	1	1.00	4.00	1	
Sample3.java	11	5	0.0	2	9.1	1	2.00	1.00	1	

Methoc
4.00

For Help, press F1

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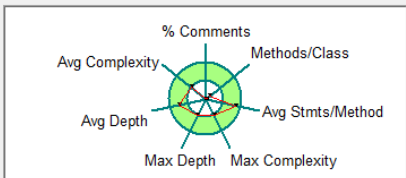
Parameter	Value
Project Directory	C:\Users\layla\Downloads\java_files_for_source_monitor_labs\java_files_for_sou
Project Name	lab5+6
Checkpoint Name	lab5+6
File Name	Sample1.java
Lines	23
Statements	14
Percent Branch Statements	7.1
Method Call Statements	5
Percent Lines with Comments	0.0
Classes and Interfaces	1
Methods per Class	1.00
Average Statements per Method	10.00
Line Number of Most Complex Method	5
Name of Most Complex Method	Sample1.main()
Maximum Complexity	2
Line Number of Deepest Block	17
Maximum Block Depth	3
Average Block Depth	1.57
Average Complexity	2.00

Most Complex Methods in 1 Class(es): Complexity, Statements, Max Depth, Calls

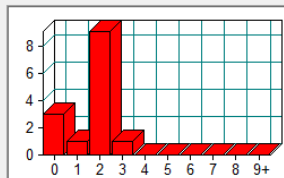
Sample1.main() 2, 10, 3, 5

Block Depth Statements

Kiviati Graph:



Block Histogram (statements vs. depth):

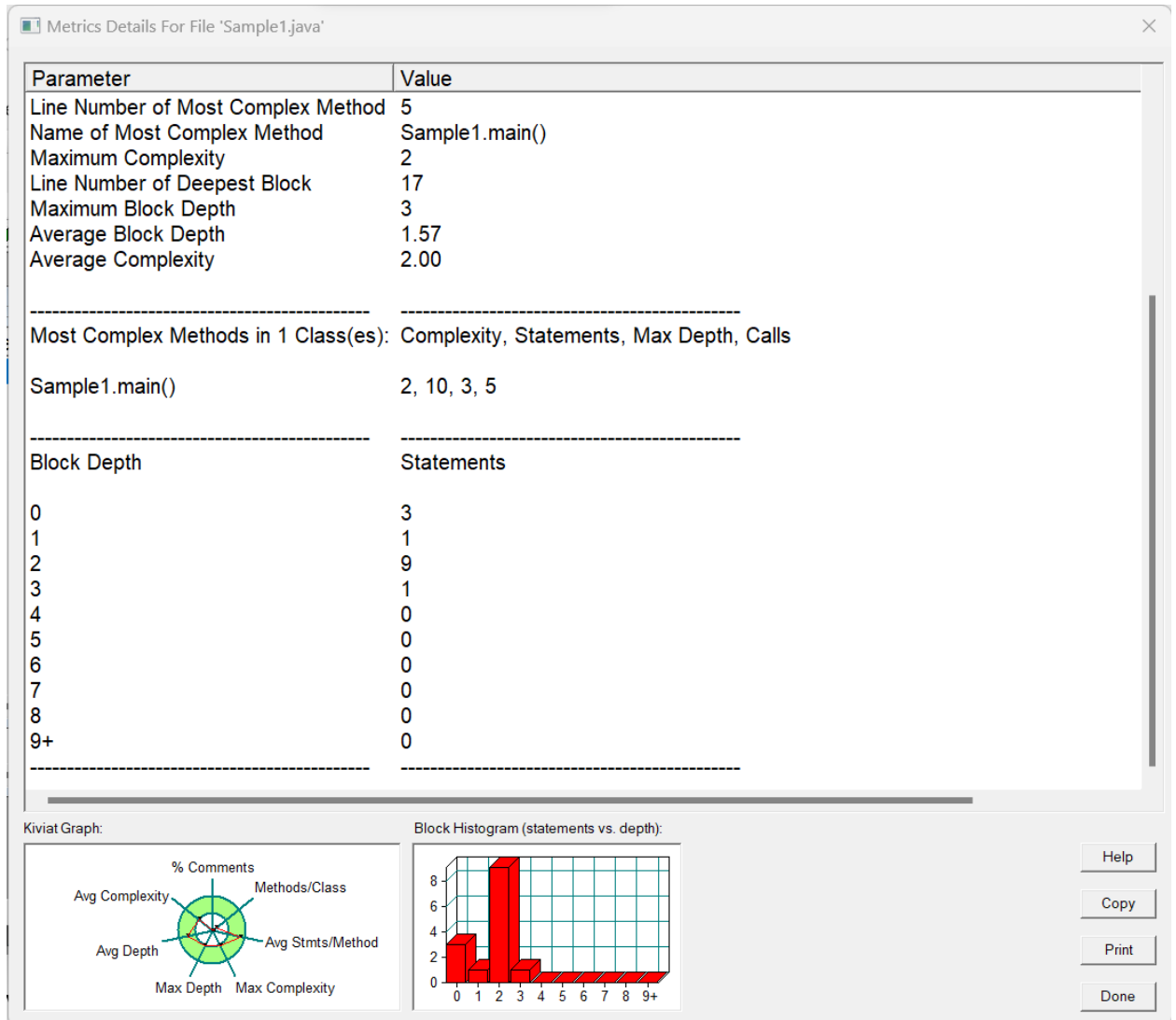


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File Edit View Window Help

Java Checkpoints In Project 'lab5+6' [Base Directory: 'C:\Users\layla\Downloads\java_files_for_source_monitor_labs\java_files_for_source_monitor_la...']

Checkpoint Name	Create...	Files	Lines	Statements	% Branches	Calls	% Comments	Classes	Methods/Class	Avg Stmts/Method
lab5+6	10 Mar 2024	3	44	26	3.8	9	6.8	3	1.33	4.00

All Methods in File 'Sample1.java', Project 'lab5+6', Checkpoint 'lab5+6'

Class	Method	Complexity	Statements	Maximum Depth	Calls
Sample1	main()	2	10	3	5

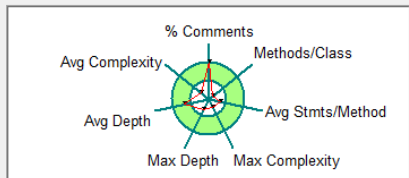
Parameter	Value
Project Directory	C:\Users\layla\Downloads\java_files_for_source
Project Name	lab5+6
Checkpoint Name	lab5+6
File Name	Sample2.java
Lines	10
Statements	7
Percent Branch Statements	0.0
Method Call Statements	2
Percent Lines with Comments	20.0
Classes and Interfaces	1
Methods per Class	1.00
Average Statements per Method	4.00
Line Number of Most Complex Method	4
Name of Most Complex Method	Sample2.main()
Maximum Complexity	1
Line Number of Deepest Block	5
Maximum Block Depth	2
Average Block Depth	1.43
Average Complexity	1.00

Most Complex Methods in 1 Class(es): Complexity, Statements, Max Depth, Calls

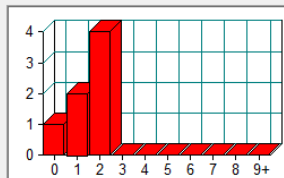
Sample2.main() 1, 4, 2, 2

Block Depth Statements

Kiviati Graph:



Block Histogram (statements vs. depth):



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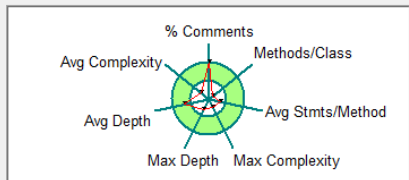
Done

Parameter	Value
Line Number of Most Complex Method	4
Name of Most Complex Method	Sample2.main()
Maximum Complexity	1
Line Number of Deepest Block	5
Maximum Block Depth	2
Average Block Depth	1.43
Average Complexity	1.00

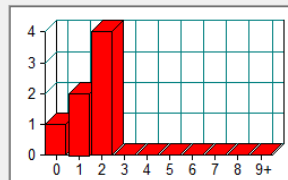
Most Complex Methods in 1 Class(es): Complexity, Statements, Max Depth, Calls	
Sample2.main()	1, 4, 2, 2

Block Depth	Statements
0	1
1	2
2	4
3	0
4	0
5	0
6	0
7	0
8	0
9+	0

Kiviati Graph:



Block Histogram (statements vs. depth):



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Java Checkpoints In Project 'lab5+6' [Base Directory: 'C:\Users\layla\Downloads\java_files_for_source_monitor_labs\java_files_for_source_monitor_la...

Checkpoint Name	Create...	Files	Lines	Statements	% Branches	Calls	% Comments	Classes	Methods/Class	Avg Stmt/Method
lab5+6	10 Mar 2024	3	44	26	3.8	9	6.8	3	1.33	4.00

All Methods in File 'Sample2.java', Project 'lab5+6', Checkpoint 'lab5+6'

Class	Method	Complexity	Statements	Maximum Depth	Calls
Sample2	main()	1	4	2	2

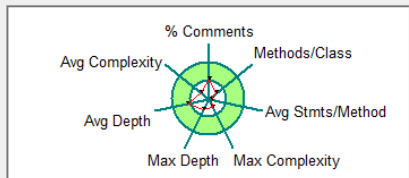
Search

Parameter	Value
Project Directory	C:\Users\layla\Downloads\java_files_for_source_monitor_labs\java_files_for_sou
Project Name	lab5+6
Checkpoint Name	lab5+6
File Name	Sample3.java
Lines	11
Statements	5
Percent Branch Statements	0.0
Method Call Statements	2
Percent Lines with Comments	9.1
Classes and Interfaces	1
Methods per Class	2.00
Average Statements per Method	1.00
Line Number of Most Complex Method	2
Name of Most Complex Method	Sample3.main()
Maximum Complexity	1
Line Number of Deepest Block	3
Maximum Block Depth	2
Average Block Depth	1.20
Average Complexity	1.00

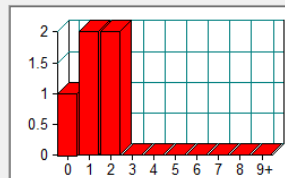
Most Complex Methods in 1 Class(es): Complexity, Statements, Max Depth, Calls

Sample3.main()	1, 1, 2, 1
Sample3.myMethod()	1, 1, 2, 1

Kiviat Graph:



Block Histogram (statements vs. depth):



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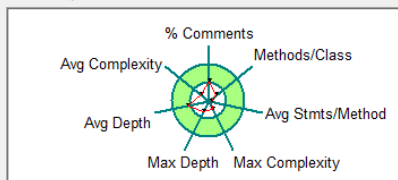
Parameter	Value
Name of Most Complex Method	Sample3.main()
Maximum Complexity	1
Line Number of Deepest Block	3
Maximum Block Depth	2
Average Block Depth	1.20
Average Complexity	1.00

Most Complex Methods in 1 Class(es): Complexity, Statements, Max Depth, Calls

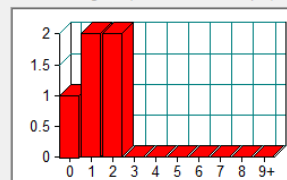
Sample3.main()	1, 1, 2, 1
Sample3.myMethod()	1, 1, 2, 1

Block Depth	Statements
0	1
1	2
2	2
3	0
4	0
5	0
6	0
7	0
8	0
9+	0

Kiviati Graph:



Block Histogram (statements vs. depth):



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Java Checkpoints in Project 'lab5+6' [Base Directory: 'C:\Users\layla\Downloads\java_files_for_source_monitor_labs\java_files_for_source_monitor_la...]

Checkpoint Name	Create...	Files	Lines	Statements	% Branches	Calls	% Comments	Classes	Methods/Class	Avg Stmt/Method
lab5+6	10 Mar 2024	3	44	26	3.8	9	6.8	3	1.33	4.00

Files in Java Project 'lab5+6', Checkpoint 'lab5+6' [Base Directory: 'C:\Users\layla\Downloads\java_files_for_source_monitor_labs\java_files_for_so...]

File Name: All Methods in File 'Sample3.java', Project 'lab5+6', Checkpoint 'lab5+6'

Class	Method Name	Complexity	Statements	Maximum Depth	Calls
Sample3	main()	1	1	2	1
Sample3	myMethod()	1	1	2	1

Other metrics:

Specify Project Name

Step 4 of 7: Specify project options. Check the box to use modified complexity (each switch/case block - with all its cases - counts as 1 in the complexity metric). Check the box to ignore blank lines. Check the box to ignore contiguous comment lines at the beginning and end of source code files.

☒ Use Modified Complexity Metric

☒ Do not count blank lines

☒ Ignore Continuous Header and Footer Comments

Create New Project

< Back Next > Cancel Help

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Java Checkpoints In Project 'lab5+6' [Base Directory: 'C:\Users\layla\Downloads\java_files_for_source_monitor_labs\java_files_for_source_monitor_la...]

Checkpoint Name	Create...	Files	Lines	Statements	% Branches	Calls	% Comments	Classes	Methods/Class	Avg Stmts/Method
lab5+6	10 Mar 2024	3	44	26	3.8	9	6.8	3	1.33	4.00

Java Checkpoints In Project 'lab5+6' [Base Directory: 'C:\Users\layla\Downloads\java_files_for_source_monitor_labs\java_files_for_source_monitor_la...]

Checkpoint Name	Create...	Files	Lines	Statements	% Branches	Calls	% Comments	Classes	Methods/Class	Avg Stmts/Method
Baseline	10 Mar 2024	3	36*	26	3.8	9	5.6	3	1.33	4.00

For Help, press F1

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Files in Java Project 'lab5+6', Checkpoint 'Baseline' [Base Directory: 'C:\Users\layla\Downloads\java_files_for_source_monitor_labs\java_files_for_sour...]

File Name	Lines	Statements	% Branches	Calls	% Comments	Classes	Methods/Class	Avg Stmts/Method	Max Complexity	Max t
Sample1.java	18*	14	7.1	5	0.0	1	1.00	10.00	2*	4.00
Sample2.java	9*	7	0.0	2	22.2	1	1.00	4.00	1*	4.00
Sample3.java	9*	5	0.0	2	0.0	1	2.00	1.00	1*	4.00

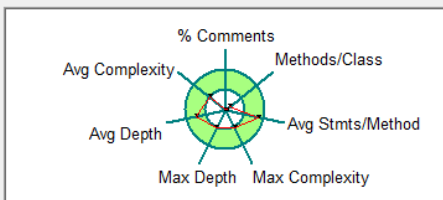
For Help, press F1

Parameter	Value

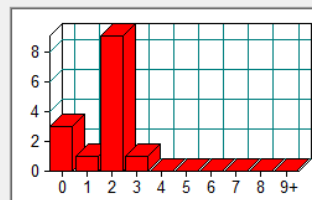
Most Complex Methods in 1 Class(es): Complexity, Statements, Max Depth, Calls	
Sample1.main()	2*, 10, 3, 5

Block Depth	Statements
0	3
1	1
2	9
3	1
4	0
5	0
6	0
7	0
8	0
9+	0

Kiviat Graph:



Block Histogram (statements vs. depth):

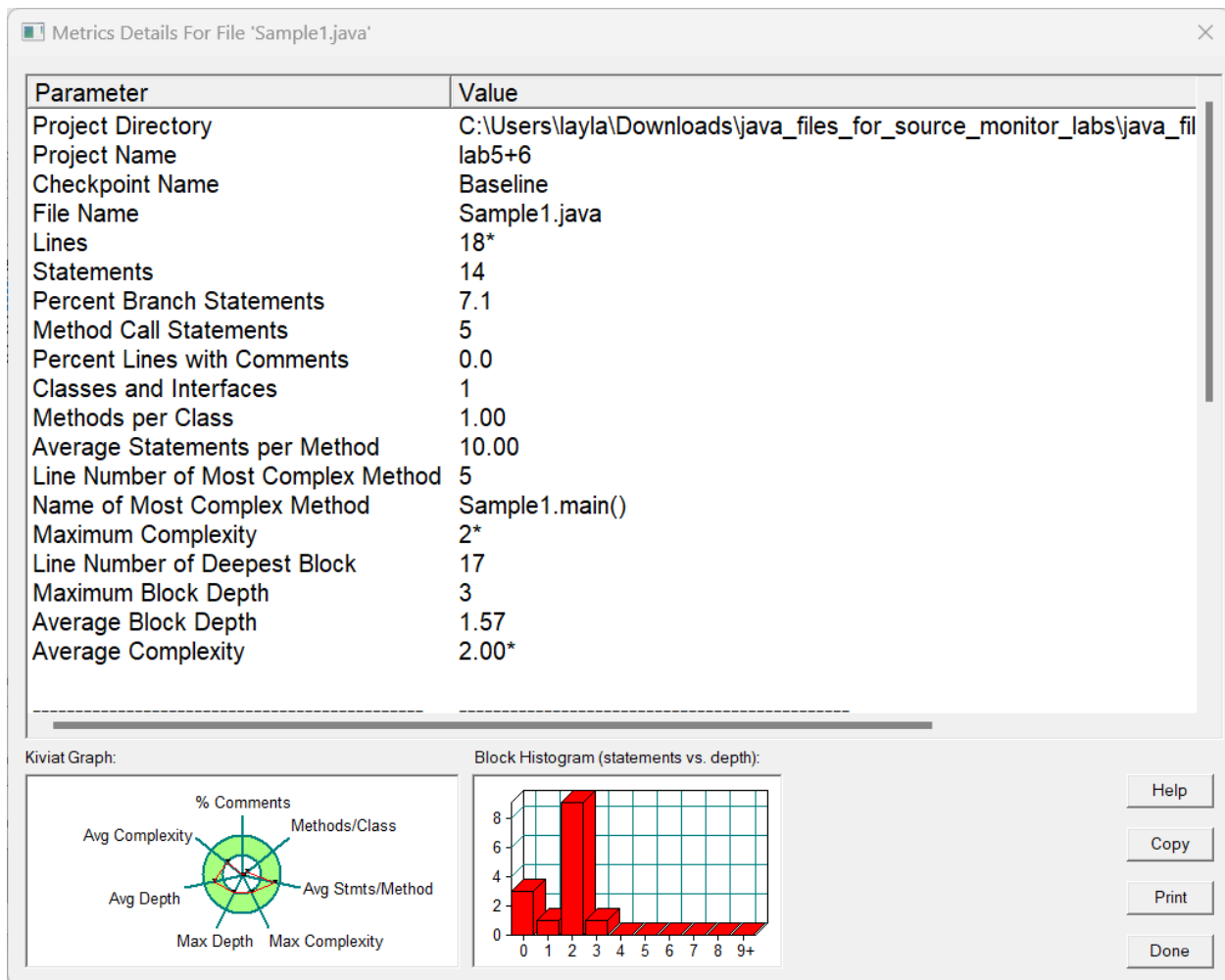


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File Edit View Window Help

Java Checkpoints In Project 'lab5+6' [Base Directory: 'C:\Users\layla\Downloads\java_files_for_source_monitor_labs\java_files_for_source_monitor_la...']

Checkpoint Name	Create...	Files	Lines	Statements	% Branches	Calls	% Comments	Classes	Methods/Class	Avg Stmts/Method
lab5+6	10 Mar 2024	3	44	26	3.8	9	6.8	3	1.33	4.00

Java Checkpoints In Project 'lab5+6' [Base Directory: 'C:\Users\layla\Downloads\java_files_for_source_monitor_labs\java_files_for_source_monitor_la...']

Checkpoint: Baseline

Files in Java Project 'lab5+6', Checkpoint 'Baseline' [Base Directory: 'C:\Users\layla\Downloads\java_files_for_source_monitor_labs\java_files_for_s...']

All Methods in File 'Sample1.java', Project 'lab5+6', Checkpoint 'Baseline'

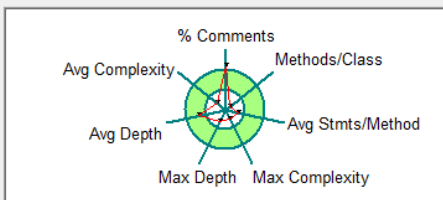
Class	Method	Complexity	Statements	Maximum Depth	Calls
Sample1	main()	2*	10	3	5

Parameter	Value

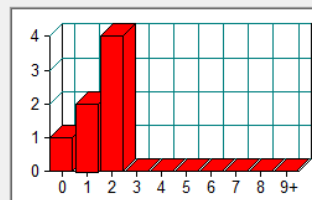
Most Complex Methods in 1 Class(es): Complexity, Statements, Max Depth, Calls	
Sample2.main()	1*, 4, 2, 2

Block Depth	Statements
0	1
1	2
2	4
3	0
4	0
5	0
6	0
7	0
8	0
9+	0

Kiviati Graph:



Block Histogram (statements vs. depth):

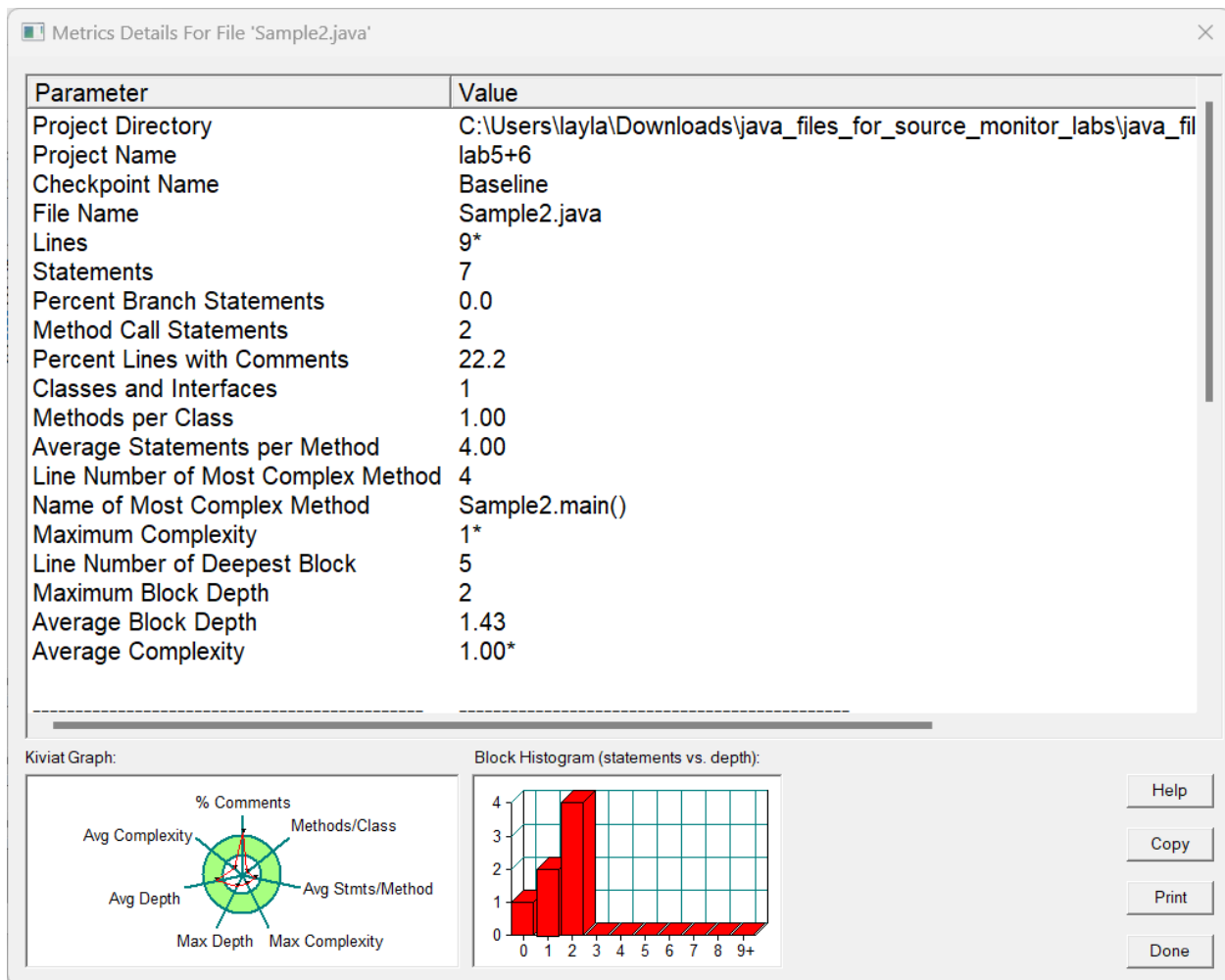


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File Edit View Window Help

Java Checkpoints In Project 'lab5+6' [Base Directory: 'C:\Users\layla\Downloads\java_files_for_source_monitor_labs\java_files_for_source_monitor_la...']

Checkpoint Name	Create...	Files	Lines	Statements	% Branches	Calls	% Comments	Classes	Methods/Class	Avg Stmts/Method
lab5+6	10 Mar 2024	3	44	26	3.8	9	6.8	3	1.33	4.00

Java Checkpoints In Project 'lab5+6' [Base Directory: 'C:\Users\layla\Downloads\java_files_for_source_monitor_labs\java_files_for_s...']

Checkpoint: Baseline

Files in Java Project 'lab5+6', Checkpoint 'Baseline' [Base Directory: 'C:\Users\layla\Downloads\java_files_for_source_monitor_labs\java_files_for_s...']

File Name	Lines	Statements	% Branches	Calls	% Comments	Classes	Methods/Class	Avg Stmts/Method	Max Complexity
Sample2.java	9	7	0.0	2	22.2	1	1.00	4.00	1

All Methods in File 'Sample2.java', Project 'lab5+6', Checkpoint 'Baseline'

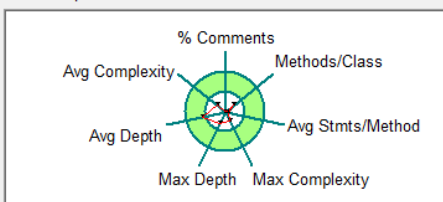
Class	Method	Complexity	Statements	Maximum Depth	Calls
Sample2	main()	1*	4	2	2

Parameter	Value

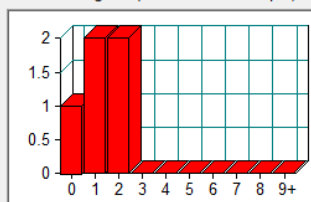
Most Complex Methods in 1 Class(es): Complexity, Statements, Max Depth, Calls	
Sample3.main()	1*, 1, 2, 1
Sample3.myMethod()	1*, 1, 2, 1

Block Depth	Statements
0	1
1	2
2	2
3	0
4	0
5	0
6	0
7	0
8	0
9+	0

Kiviati Graph:



Block Histogram (statements vs. depth):

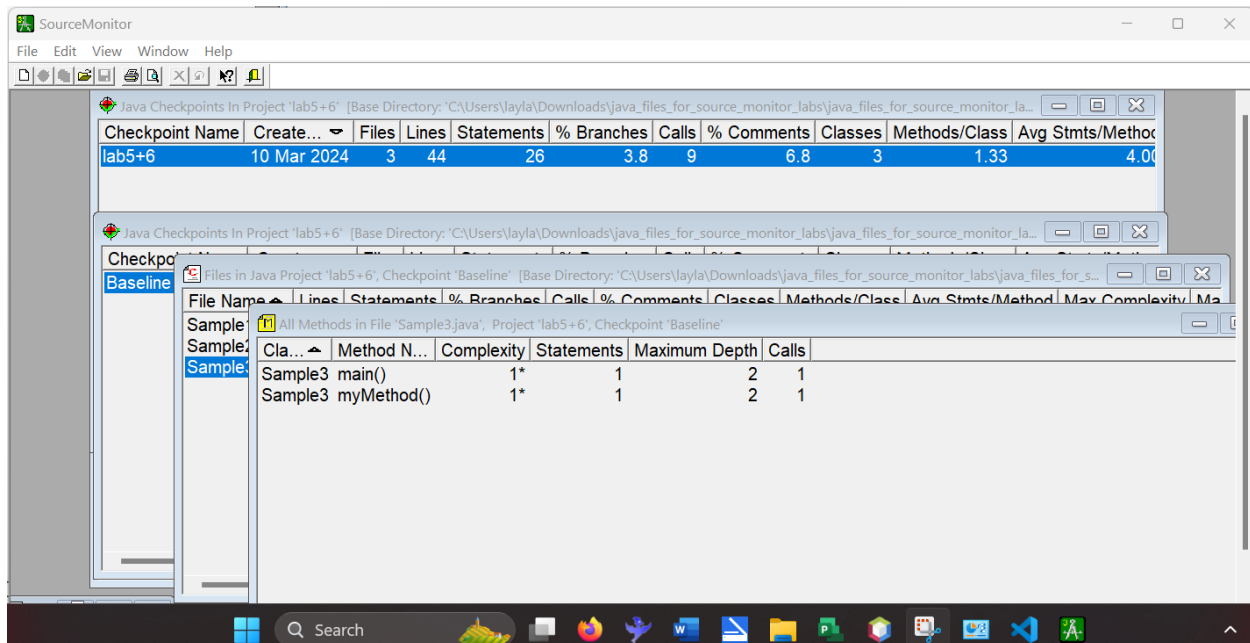
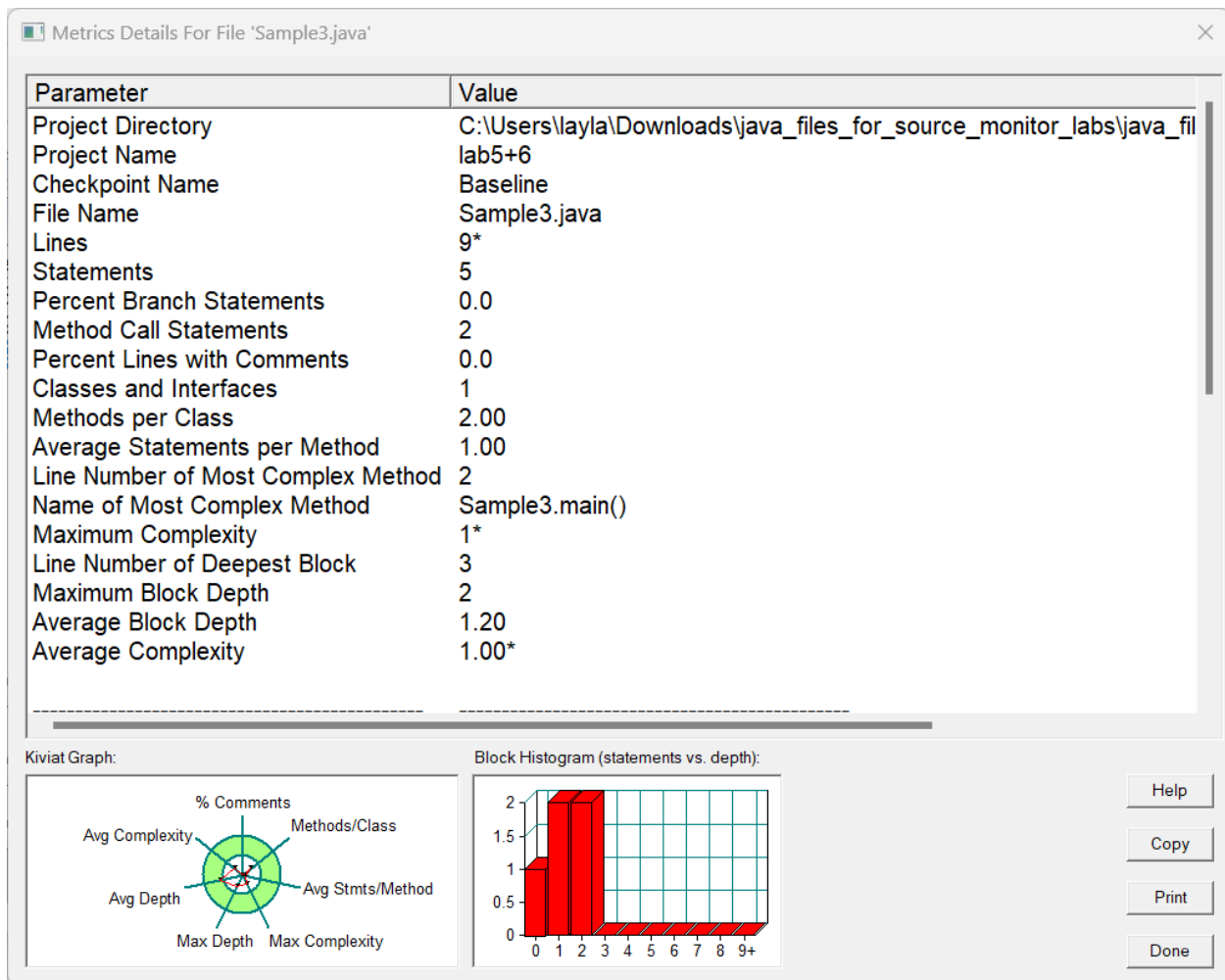


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File Name	Lines	Statements	% Branches	Calls	% Comments	Classes	Methods/Class	Avg Stmts/Method	Max Complexity	Max Lines
Sample1.java	18*	14	7.1	5	0.0	1	1.00	10.00	2*	10
Sample2.java	9*	7	0.0	2	22.2	1	1.00	4.00	1*	4
Sample3.java	9*	5	0.0	2	0.0	1	2.00	1.00	1*	1

1- Write what measurements/tests you are going to perform? (e.g. code size etc.

see other types of measurements you can perform, in the help section of

SourceMonitor) [code size and complexity](#)

2- Which programming language source code files you have tested? [java](#)

3- How many files you have tested? (for each programming language) [3 for java](#)

4- What changes (e.g. changing parameters as described above) you made in each file after first test? [Reducing white space in samples 1 and 3.](#)

5- What was the result of tests after changes? [The number of lines decreased.](#)

6- Presentation of results in tabular and graphical formats.

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All Methods in File "Sample1.java", Project "AR", Checkpoint "AR"

Class	Method	Complexity	Statements	Maximum Depth	Calls
Sample1	main()	2	10	3	4

For Help, press F1

NUM

SourceMonitor

File Edit View Window Help

All Methods in File "Sample2.java", Project "AR", Checkpoint "AR"

Class	Method	Complexity	Statements	Maximum Depth	Calls
Sample2	main()	1	4	2	2

For Help, press F1

NUM

SourceMonitor
File Edit View Window Help

All Methods in File "Sample3.java", Project "AR", Checkpoint "AR"

Class	Method Name	Complexity	Statements	Maximum Depth	Calls
Sample3	main()	1	1	2	0
Sample3	myMethod()	1	1	2	0

For Help, press F1

NUM

Metrics Details For File "Sample1.java"

Parameter	Value
Lines	17
Statements	14
Percent Branch Statements	7.1
Method Call Statements	4
Percent Lines with Comments	0.0
Classes and Interfaces	1
Methods per Class	1.00
Average Statements per Method	10.00
Line Number of Most Complex Method	5
Name of Most Complex Method	Sample1.main()
Maximum Complexity	2
Line Number of Deepest Block	15
Maximum Block Depth	3
Average Block Depth	1.57
Average Complexity	2.00

Most Complex Methods in 1 Class(es): Complexity, Statements, Max Depth, Calls

Sample1.main()
2, 10, 3, 4

Block Depth	Statements
0	3
1	1
2	9
3	1
4	0
5	0

Kiviati Graph:

Block Histogram (statements vs. depth):

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