

03/5/2023

Code Structure Measurement Of SPL 1

SE 3204 - Software Metrics Lab

SUBMITTED TO

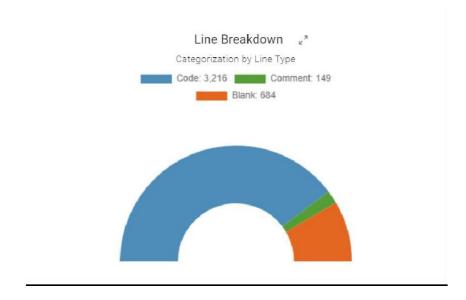
Dipok Chandra Das Assistant Professor, IIT Noakhali Science and Technology University

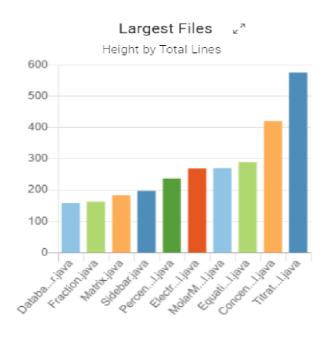
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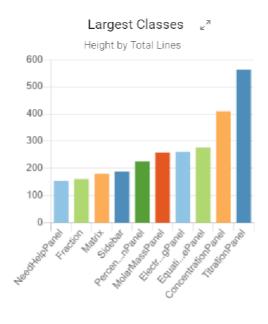
Anupa Das Shormi (BFH1925020F) Md.Rayhan Billah(ASH925028M) Md.Rokonuzzaman(ASH1925018M)

Project Overview

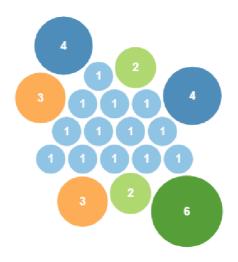








Most Complex Classes



1 = { Atom, Fraction, DatabaseSerializer, CompoundManager, compound, EquationBalancePanel, Concentration, Converter Inner class, Fraction, Exception classes}

2 = { ConcentrationPanel, Converter }

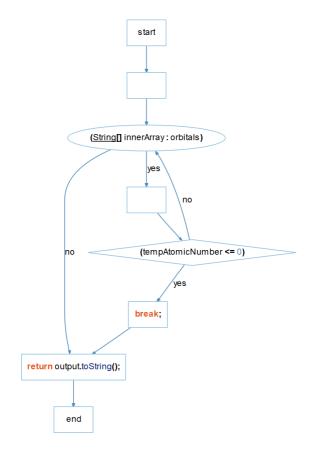
3 = { Matrix, Titration }

4 = { Formater, TitrationPanel }

6 = { EquationBalancer }

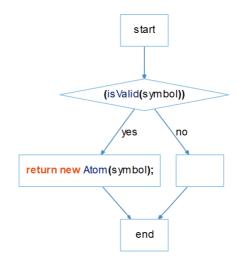
Class: Atom

1. Method name: getElectronConfig



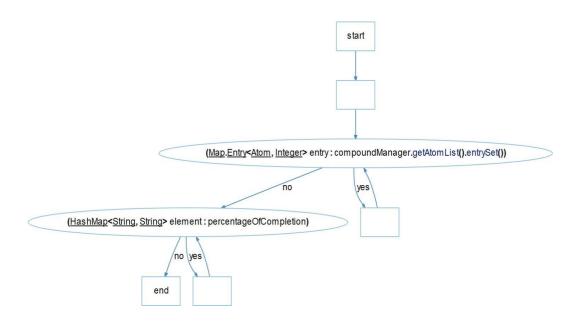
Cyclomatic complexity = 3

2. Method name: getInstance



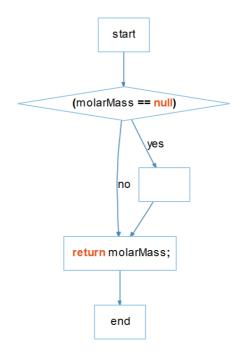
Class: Compound

3. Method name: calculatePercentageOfCompletion



Cyclomatic complexity= 3

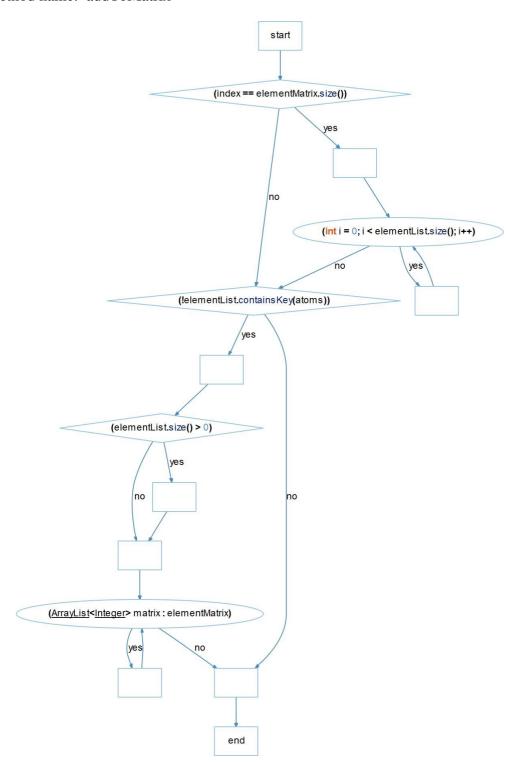
4. Method name: getMolarMass



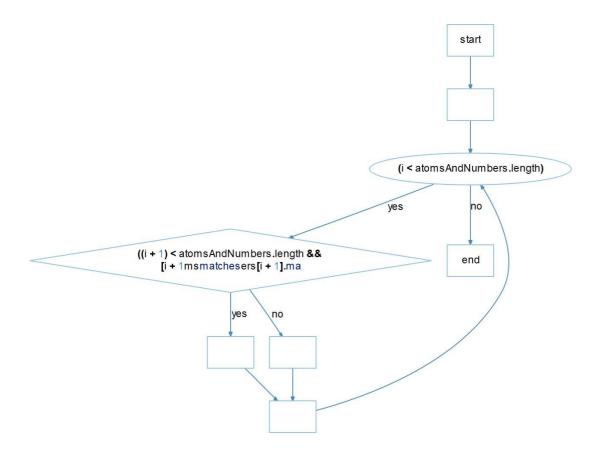
Cyclomatic complexity= 2

Class: CompoundManager

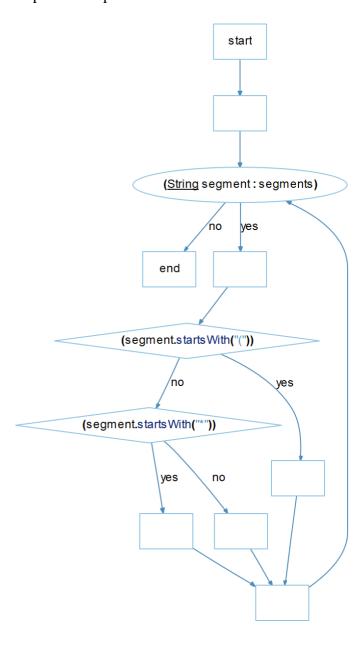
5. Method name: addToMatrix



6. Method name: findAtoms

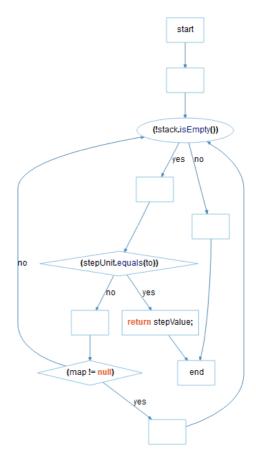


7. Method name: compoundDecipher



Class: Converter

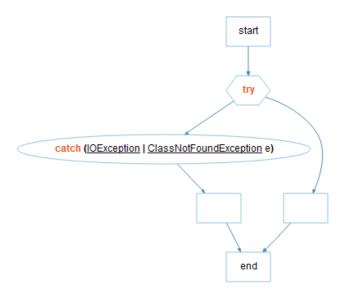
8. Method name: convert



Cyclomatic complexity = 4

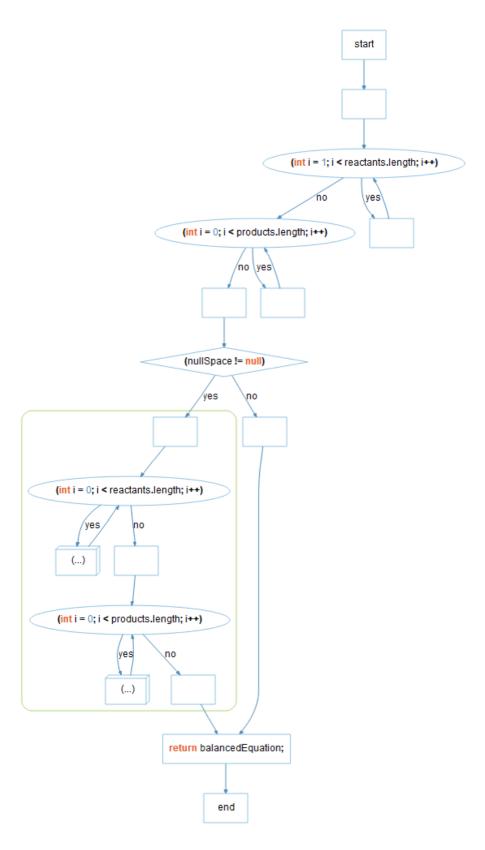
Class: Database

9. Method name: Database



Class: EquationBalancer

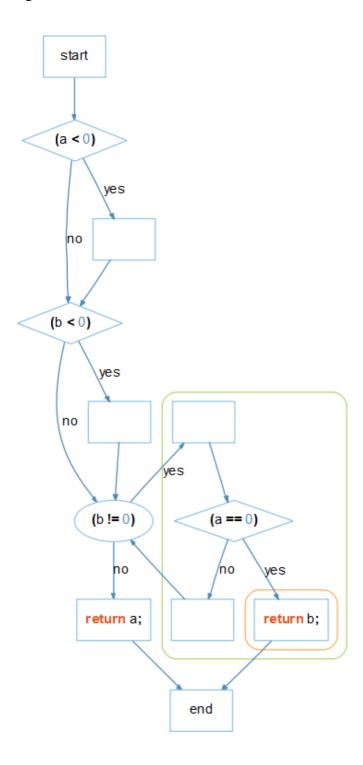
10. Method name: balance



Cyclomatic complexity = 12

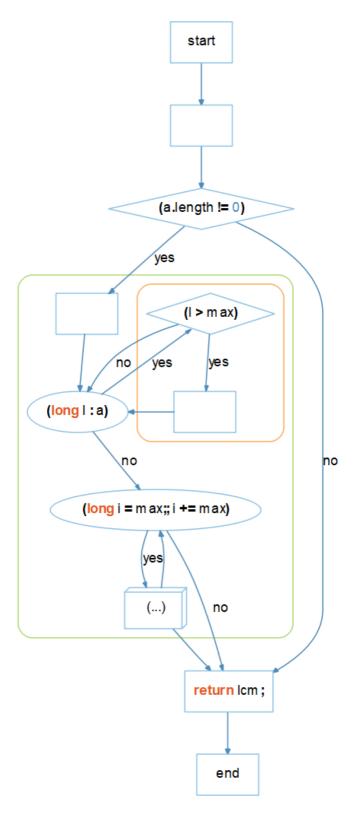
Class: Fraction

11. Method name: getGCD

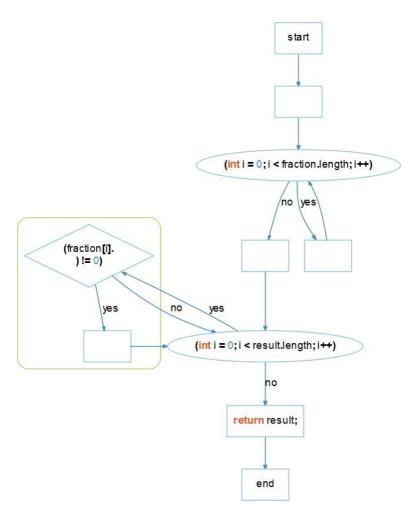


Cyclomatic complexity = 5

12. Method name: getLCM



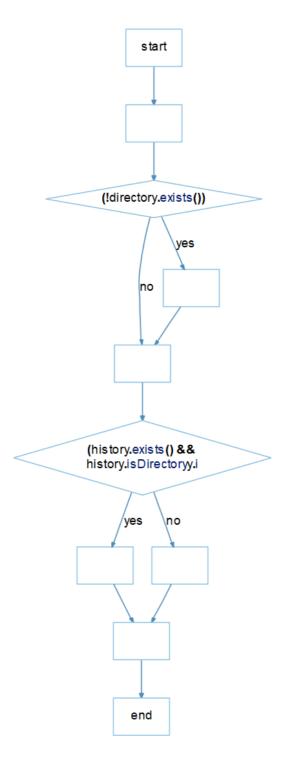
13. Method name: normalize



Cyclomatic complexity = 4

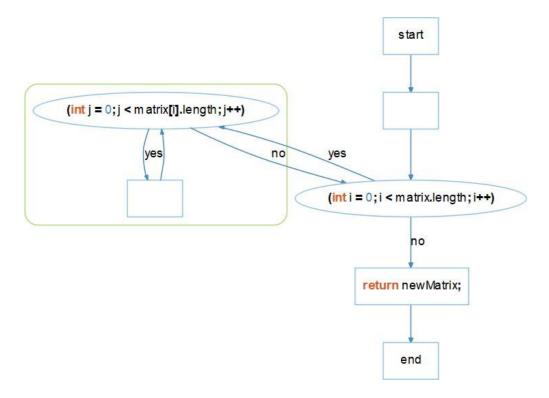
Class: History

14. Method name: Add

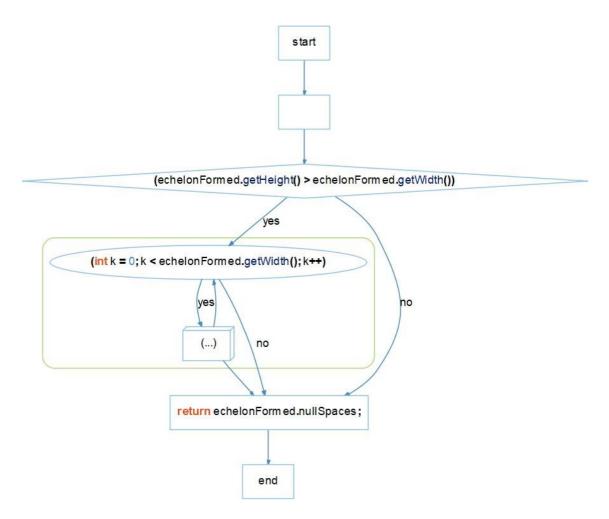


Class: Matrix

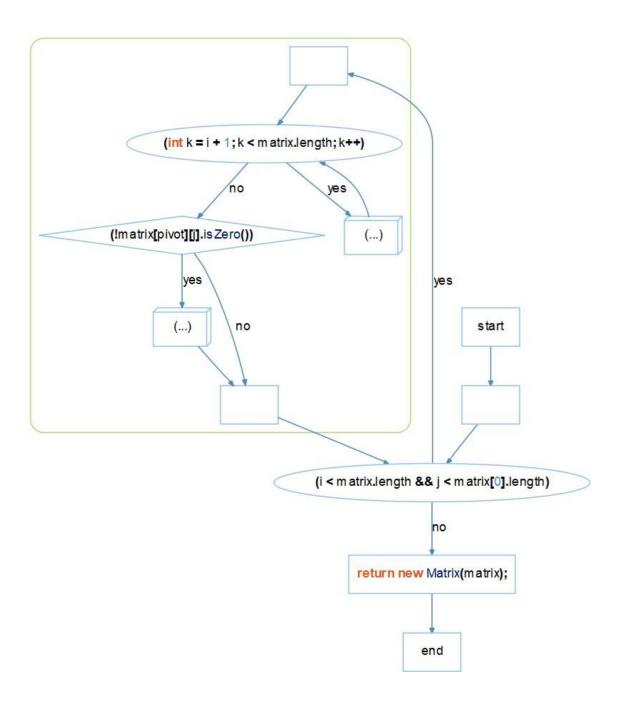
15. Method name: intToFraction



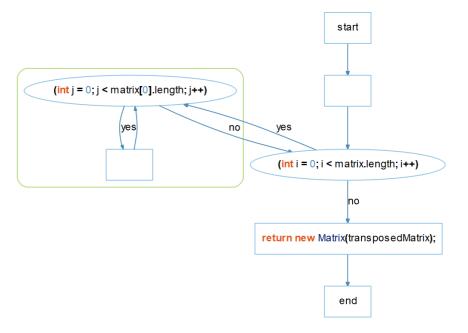
16. Method name: nullSpace



17. Method name: gaussianElimination

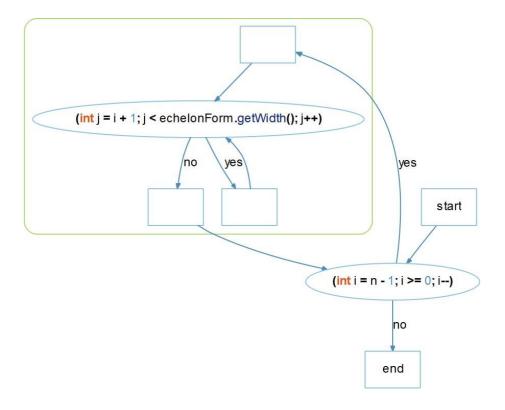


18. Method name: transpose



Cyclomatic complexity = 3

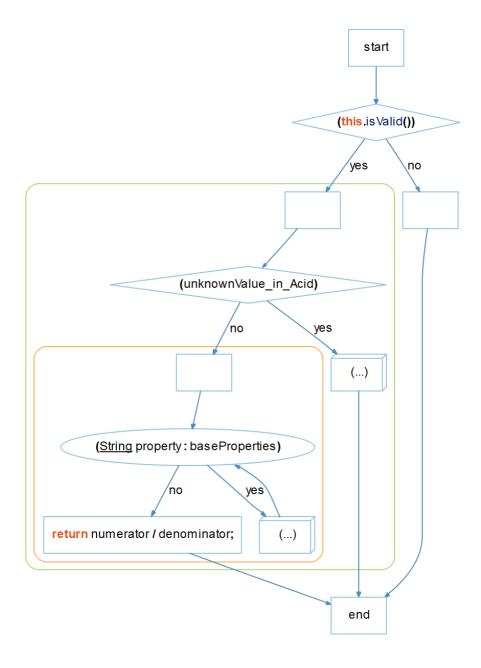
19. Method name: backSubstitute



Cyclomatic complexity = 3

Class Titration

20. Method name: getUnknownValue



21. Method name: isValid

