TEAM: GIT CONFUSED SPRINT 3

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DEV TEAM – ROBERT KUPFNER



DEMONSTRATION OF A RUNNING PROGRAM

USER STORIES

- As a developer, I need to write methods for integer operations for our JVM.
- As a developer, I need to create the stack class that will be used by the operands.
- As a developer, I need to create simple Java files to test integer operations.

*all user stories are complete, but we are running the program on a mock object rather than the real opcodes from Java files.

STORY POINTS

Complete:

- Created the stack for operands (2)
- Write Unittests for Opcode Methods (5)
- Write Opcode Methods (5)
- Write a switcher to call methods based on the opcode (2)
- Created simple Java files to test integer operation (2)
- Code coverage over 90% (1)

Incomplete:

- Pull .class bytes properly (8)
- Clean up Constant Pool Method (1)
- Jasmin test file (3)

SYSTEM DEVELOPMENT LIFE CYCLE STATISTICS

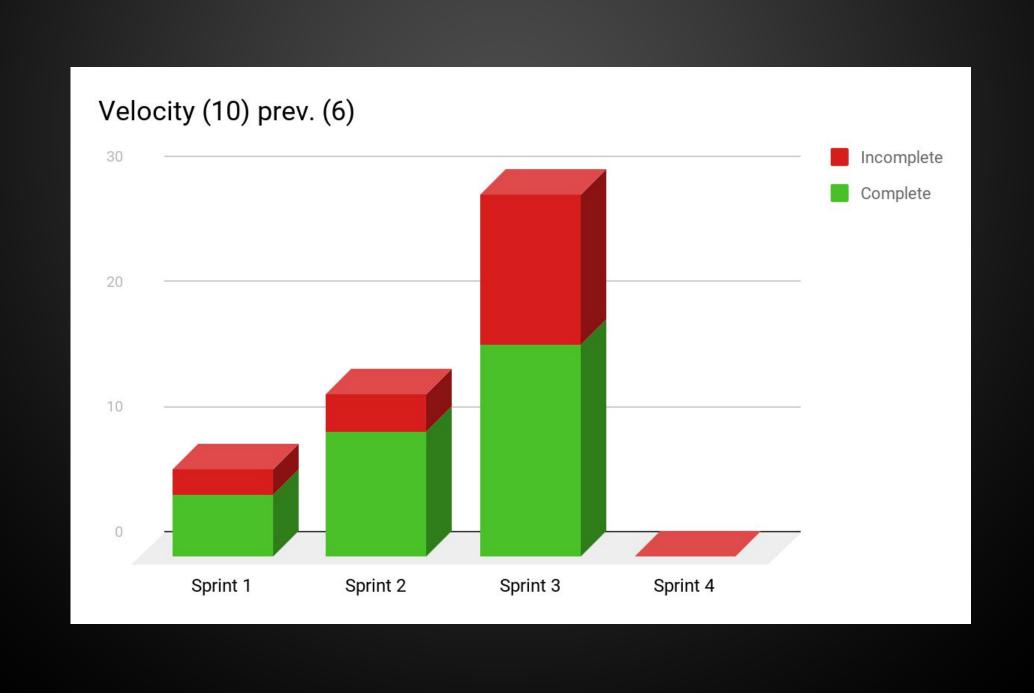
SDLC STATISTICS

Sprint Backlog (36)

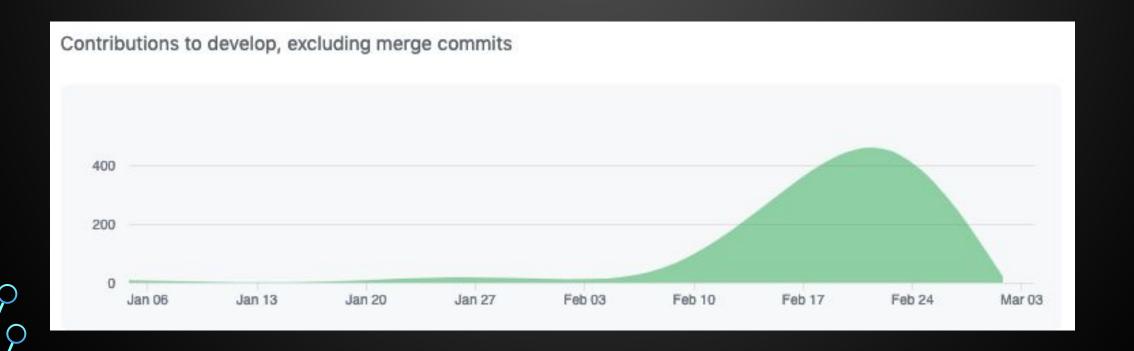
- Create stack for Operands.
- Create Unittests for Opcode methods.
- Implement some of the Integer Oper.
- Create simple Java files to test.

Project Backlog (11)

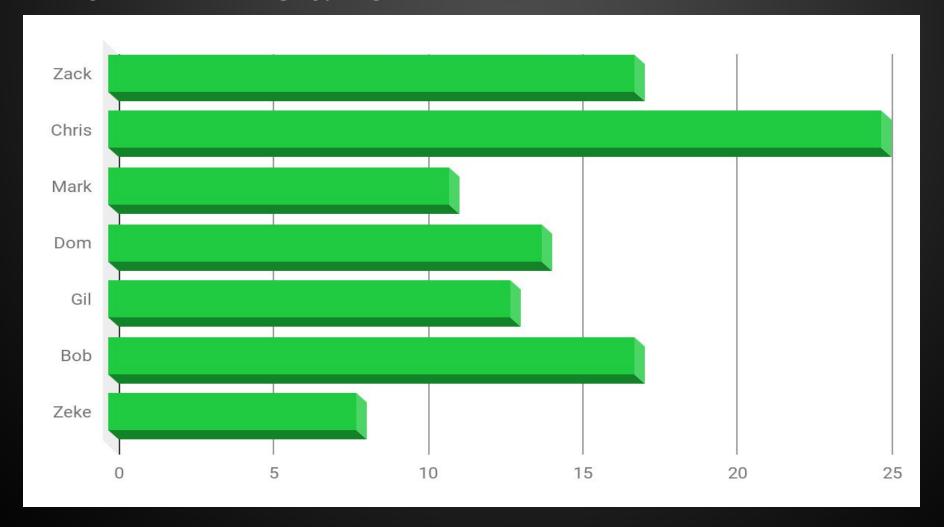
- Write the remaining Opcode methods.
- Pull Opcodes from .class file correctly.



Team Contributions



Team Hours



^{*}additional 8 hrs each for 2hr Mon & Wed team meetings.

CODE STATISTICS

```
Worker information
      Build system information
      $ git clone --depth=50 --branch=develop https://github.com/git-confused-team3/GitConfused.git
      Setting environment variables from repository settings
      $ export SONAR_TOKEN=[secure]
  424 $ source ~/virtualenv/python3.6/bin/activate
                                                                                                                        0.01s
  425 $ python --version
  426 Python 3.6.3
  427 $ pip --version
  428 pip 9.0.1 from /home/travis/virtualenv/python3.6.3/lib/python3.6/site-packages (python 3.6)
429 $ pip install codecov
      SonarCloud addon
      $ coverage run -m unittest
                                                                                                                       0.228
      Ran 33 tests in 0.022s
  474 OK
      The command "coverage run -m unittest" exited with \theta.
      $ coverage xml -i
      The command "coverage xml -i" exited with 0.
► 481 $ codecov
                                                                                                                       0.76s
                                                                                                       after_success
  508 Done. Your build exited with 0.
                                                                     Trash
                                                                                                                          Тор
```

CodeClimate

https://codeclimate.com/github/git-confus ed-team3/GitConfused

Breakdown

29 FILES

MAINTAINABILITY

TEST COVERAGE

Codebase summary

MAINTAINABILITY



1 day

TEST COVERAGE



Repository stats

CODE SMELLS

L DINLLLD

DUPLICATION

6

OTHER ISSUES

26

CodeCov

Miss Cover

10

100%

98%

81%

94%

100%

Stmts

107

42

13

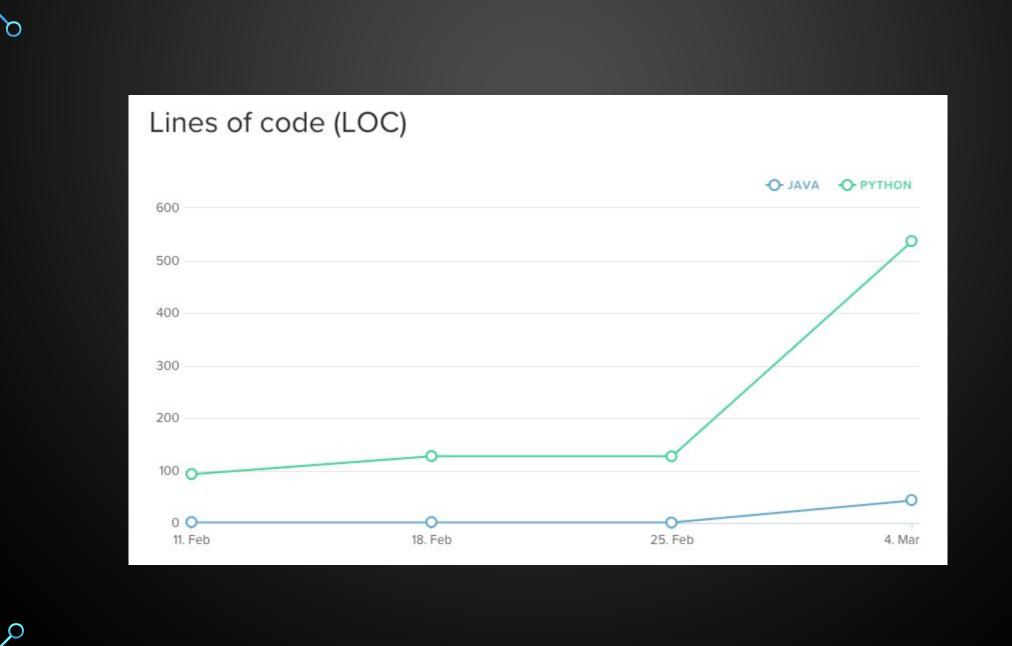
169

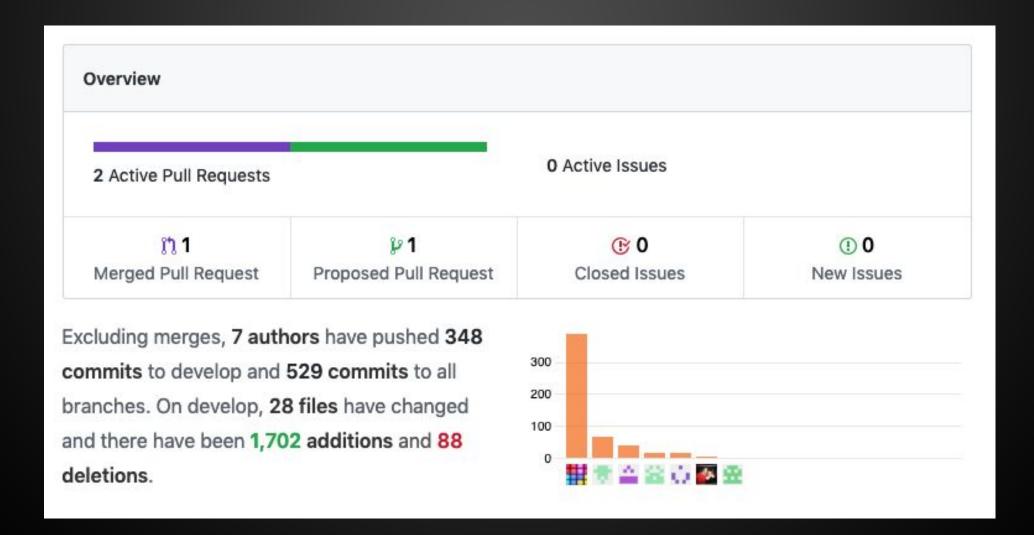
Missing

61, 144

79-92

V 481	\$ codecov	\$ coverage report Name
482 483 484 485 486 487 488		jvpm\jvpm_dict.py jvpm\jvpm_methods. jvpm\jvpm_opcodes. jvpm\stack.py
489 490	v2.0.15	TOTAL
491	==> Detecting CI provider	TOTAL
492	Travis Detected	
493	==> Preparing upload	
494	==> Processing gcov (disable by -X gcov)	
	Executing gcov (find /home/travis/build/git-confused-team3/GitConfused -r	not -path './bower_components/**' -not -
	path './node_modules/**' -not -path './vendor/**' -type f -name '*.gcno' -ex	sec gcov -pb {} +)
	path './node_modules/**' -not -path './vendor/**' -type f -name '*.gcno' -ex ==> Collecting reports	ec gcov -pb {} +)
496 497		
	==> Collecting reports	
497	==> Collecting reports + /home/travis/build/git-confused-team3/GitConfused/coverage.xml bytes=26	
497 498	==> Collecting reports + /home/travis/build/git-confused-team3/GitConfused/coverage.xml bytes=26 ==> Appending environment variables	
497 498 499	==> Collecting reports + /home/travis/build/git-confused-team3/GitConfused/coverage.xml bytes=26 ==> Appending environment variables + TRAVIS_OS_NAME	
497 498 499 500	==> Collecting reports + /home/travis/build/git-confused-team3/GitConfused/coverage.xml bytes=26 ==> Appending environment variables + TRAVIS_OS_NAME + TRAVIS_PYTHON_VERSION	
497 498 499 500 501	==> Collecting reports	
497 498 499 500 501 502	==> Collecting reports	1432
497 498 499 500 501 502	==> Collecting reports	1432
497 498 499 500 501 502	==> Collecting reports	1432
497 498 499 500 501 502 503	==> Collecting reports	1432
497 498 499 500 501 502 503	==> Collecting reports	432 apr=false&service=travis&build=597.1&slug=
497 498 499 500 501 502 503 504 505	==> Collecting reports	432 apr=false&service=travis&build=597.1&slug=





```
class test_stack(unittest.TestCase):
                                                    class UnittestHeader(unittest.TestCase):
    def test_is_empty(self):
        s = Stack()
                                                        def setUp(self):
        s.push(1)
                                                             m = mock_open(read_data='CAFEBABE00000036000F')
        s.pop()
                                                             with patch(__name__ + '.open', m):
        self.assertTrue(s.is_empty())
                                                                 self.cf = jvpm_opcodes.HeaderClass()
    def test_push(self):
        s = Stack()
                                                        def test_magic(self):
                                                             self.assertEqual(self.cf.get_magic(), 'CAFEBABE')
        s.push(2)
        s.push(3)
                                                             self.assertEqual(self.cf.get_minor(), 0)
                                                             self.assertTrue(53 <= self.cf.get_major() <= 55)</pre>
        v = s.pop()
                                                             self.assertEqual(self.cf.get_const_pool_count(), 15)
        self.assertEqual(v, 3)
                                                      class Test_Op_Methods(unittest.TestCase):
    def test_pop(self):
        s = Stack()
                                                            a = OpCodeMethods()
        s.push(3)
        s.push(2)
        s.push(4)
        s.push(0)
                                                            self.assertEqual(b, 3)
        a = s.pop()
        b = s.pop()
                                                            a = OpCodeMethods()
        self.assertEqual(a, 0)
        self.assertEqual(b, 4)
    def test_peek(self):
                                                            self.assertEqual(b,1)
        s = Stack()
        s.push("hello")
                                                            a = OpCodeMethods()
        s.push("hi")
                                                            a.iconst m1()
        self.assertEqual(s.peek(),"hi")
                                                            b = a.stack.peek()
        s.pop()
                                                            self.assertEqual(b, -1)
                                                            self.assertEqual(a.stack.peek(), 5)
```



WHAT WENT WELL

- We got a lot of coding done early.
- Use of Trello board.
- Multiple people collaborating on single problem (resolving faster).
- Following SCRUM roles.

WHAT WENT POORLY

- Did not implement TDD.
- Couple people did most of the initial coding.
- Breaking tasks down.
- Initial understanding of what had to be done.
- Planning sprint timeline.

WHAT ARE WE GOING TO START/STOP/CONTINUE

- Begin the Sprint with research rather than coding.
- Break down the User Stories evenly based on work needed to complete.
- Split workload between the Dev team.
- Implement TDD.

Sprint Retrospective

SPRINT 2: WHAT ARE WE GOING TO START/STOP/CONTINUE

- Start using slack/trello more often so that we have a record of what the team has discussed
- Stop overlapping project duties.
- Continue twice weekly meet ups with team to keep up to date with sprint progress.

CONTINUED IN SPRINT 3.

- Used Trello board to track who is working on what.
- Resulted in minimum overlap of work.
- Met twice a week for 2hrs before class.