```
Last login: Sun Feb 28 12:53:37 on ttys000
YangNans-MacBook-Pro:~ yangnan$ cd /Users/yangnan/workspace/
Assignment05_Nan_Yang
YangNans-MacBook-Pro:Assignment05_Nan_Yang yangnan$ sbt test
[info] Loading project definition from /Users/yangnan/workspace/
Assignment05_Nan_Yang/project
[info] Set current project to Numerics (in build file:/Users/yangnan/
workspace/Assignment05_Nan_Yang/)
[info] Compiling 5 Scala sources to /Users/yangnan/workspace/
Assignment05_Nan_Yang/target/scala-2.11/test-classes...
[warn] there was one feature warning; re-run with -feature for details
[warn] one warning found
[info] LazyNumberRationalSpec:
[info] rat1
[info] - should be 1
[info] - should be -1 after negate
[info] - should be 0 after minus(1)
[info] rat2
[info] - should be 2
[info] - should be 4 when multiplied by itself
[info] - should be 1 when divided by itself
[info] - should be 3 when added to one
[info] - should be 6 when added to one and three
[info] - should be 3 when added to one by explicit function
[info] for comprehension
[info] - should give 4
[info] - should give 8
[info] LazyNumberFuzzySpec:
[info] fuzz1
[info] - should be 1
[info] - should be -1 after negate
[info] - should be 0 after minus(1)
[info] fuzz2
[info] - should be 2
[info] - should be 4 when multiplied by itself
[info] - should be 1 when divided by itself
[info] - should be 3 when added to one
[info] - should be 6 when added to one and three !!! IGNORED !!!
[info] - should be 3 when added to one by explicit function !!!
IGNORED !!!
[info] fuzzy for comprehension
[info] - should give 4
1.0e6
1.0E+6
[info] RationalSpec:
[info] 0
[info] - should be OK
[info] - should use implicit conversion
[info] - should be ZERO
[info] - should be whole
```

[info] – should be zero
[info] – should equal 0
[info] – should equal infinity when inverted
[info] – should equal BigDecimal.ZERO
[info] – should equal r when added to r
[info] 1/2
[info] – should be OK
[info] – should equal HALF
[info] – should be half of one
[info] – should be OK using r-interpolator
[info] – should be OK using r-interpolator with variable
[info] 1
[info] – should be OK
[info] – should be one
[info] – should be whole
[info] – should be unity
[info] – should equal 1
[info] – should not equal infinity when inverted
[info] – should equal itself when inverted
[info] – should equal BigDecimal.one
[info] – should equal r when multiplied by r
[info] 10
[info] – should be OK
[info] – should be ten
[info] – should be whole
[info] – should not be zero
[info] – should equal 10
[info] – should equal 5*2
[info] – should equal 10*1
[info] – should equal BigDecimal(10)
[info] – should equal a million when raised to 6th power
[info] – should barf when raised to 10th power
[info] 2/3
[info] – should be OK
[info] – should equal -1/3 when added to -1
[info] – should be less than 1
[info] – should not be whole
[info] – should equal 2 when multiplied by 3
[info] – should equal 3/2 when inverted
[info] – should equal 5/3 when added to 1
[info] – should equal 4/9 when multiplied by itself
[info] – should equal 4/9 when squared
[info] – should barf when toInt invoked
[info] 2/4
[info] – should not be OK
[info] – should be OK via normalize
[info] Floating Point Problem
[info] – should be OK
[info] BigDecimal
[info] – should convert to Rational

```
[info] toString
[info] - should be decimal when exact
[info] - should be rational when not exact: 2/3
[info] - should be decimal when not exact: pi
[info] Rational(String)
[info] - should work for 0.1
[info] - should work for 1.0e6
[info] FuzzyParserSpec:
[info] integer
[info] - should parse 1
[info] - should parse 6
[info] fuzz
[info] - should parse (42)
[info] - should not parse 42
[info] fraction
[info] - should parse .42
[info] exponent
[info] - should parse E-11
[info] - should parse E11
[info] - should parse e2
[info] partial parsing
[info] - should parse 6.67408(31)E-11 etc.
[info] fuzzy
[info] - should be Exact(1)
[info] - should parse 6.67408(31)E-11
[info] - should parse 3.1415927(01)
[info] - should parse 3.1415927
[info] FuzzySpec:
[info] Gaussian
[info] - should sum with self
[info] - should not multiply with self
[info] Bounded
[info] - should sum with self
[info] - should multiply with self
[info] - should implement negate
[info] - should implement inverse
[info] - should implement power(Int)
[info] - should implement power(Double)
[info] - should implement power(Fuzzy)
[info] fuzzy(String)
[info] - should parse 1
[info] - should parse 6.67408(31)E-11
[info] - should parse 3.1415927(01)
[info] - should parse 3.1415927
[info] Run completed in 627 milliseconds.
[info] Total number of tests run: 97
[info] Suites: completed 5, aborted 0
[info] Tests: succeeded 97, failed 0, canceled 0, ignored 2, pending 0
[info] All tests passed.
[success] Total time: 13 s, completed Feb 28, 2016 9:37:40 PM
```

YangNans-MacBook-Pro:Assignment05_Nan_Yang yangnan$