

Name: *Jonathan Smoley*

Assignment: 3

Complete & Correct:	42 / 42
Tests:	6 / 6
Format and Comments:	6 / 6
Writeup:	6 / 6

Total Score:	60 / 60
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Comments:

1. copy constructor can just call assignment operator (so you don't have duplicate code)
2. don't need to always use `this->`, it is distracting and unnecessary

Unit test output:

```

==63774== Memcheck, a memory error detector
==63774== Copyright (C) 2002-2017, and GNU GPL'd, by Julian Seward et al.
==63774== Using Valgrind-3.15.0 and LibVEX; rerun with -h for copyright info
==63774== Command: ./hw3_test
==63774==
[=====] Running 20 tests from 1 test suite.
[-----] Global test environment set-up.
[-----] 20 tests from BasicArraySeqTests
[ RUN      ] BasicArraySeqTests.EmptySeqSize
[      OK  ] BasicArraySeqTests.EmptySeqSize (11 ms)
[ RUN      ] BasicArraySeqTests.EmptySeqContains
[      OK  ] BasicArraySeqTests.EmptySeqContains (1 ms)
[ RUN      ] BasicArraySeqTests.EmptySeqMemberAccess
[      OK  ] BasicArraySeqTests.EmptySeqMemberAccess (28 ms)
[ RUN      ] BasicArraySeqTests.AddAndCheckSize
[      OK  ] BasicArraySeqTests.AddAndCheckSize (7 ms)
[ RUN      ] BasicArraySeqTests.AddAndCheckContains
[      OK  ] BasicArraySeqTests.AddAndCheckContains (5 ms)
[ RUN      ] BasicArraySeqTests.OutOfBoundsInsertIndexes
[      OK  ] BasicArraySeqTests.OutOfBoundsInsertIndexes (4 ms)
[ RUN      ] BasicArraySeqTests.EraseAndCheckSize
[      OK  ] BasicArraySeqTests.EraseAndCheckSize (11 ms)
[ RUN      ] BasicArraySeqTests.EraseAndCheckContains
[      OK  ] BasicArraySeqTests.EraseAndCheckContains (8 ms)
[ RUN      ] BasicArraySeqTests.OutOfBoundsEraseIndexes
[      OK  ] BasicArraySeqTests.OutOfBoundsEraseIndexes (4 ms)
[ RUN      ] BasicArraySeqTests.DestructorNoThrowChecksWithNew
[      OK  ] BasicArraySeqTests.DestructorNoThrowChecksWithNew (2 ms)
[ RUN      ] BasicArraySeqTests.CopyConstructorChecks
[      OK  ] BasicArraySeqTests.CopyConstructorChecks (6 ms)
[ RUN      ] BasicArraySeqTests.MoveConstructorChecks
[      OK  ] BasicArraySeqTests.MoveConstructorChecks (6 ms)
[ RUN      ] BasicArraySeqTests.CopyAssignmentOpChecks
[      OK  ] BasicArraySeqTests.CopyAssignmentOpChecks (9 ms)
[ RUN      ] BasicArraySeqTests.CheckRValueAccess
[      OK  ] BasicArraySeqTests.CheckRValueAccess (2 ms)
[ RUN      ] BasicArraySeqTests.CheckLValueAccess

```


8388608	29.60	5.40	11.20	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.20	2.20	12.00	1.00	0.00	0.00
9000000	25.00	3.00	12.20	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.20	3.00	13.00	1.00	0.00	0.00
10000000	28.00	3.20	14.00	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.00	3.00	14.20	1.20	0.00	0.00
11000000	30.40	3.20	15.20	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.00	3.20	16.00	1.40	0.00	0.00
12000000	33.40	4.00	16.60	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.00	4.00	17.20	1.60	0.00	0.00