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CECS 282

**Homework 7**

**2. a.** 3 Rational objects

**b.** 2 Rational objects are destructed

**c.** C is a pointer instead of rational object because C is a pointer to the newly created Rational object

of Rational(4,5) in the heap.

**3. a.** True

**b.** True

**c.** True

**d.** False

**e.** False

**f.** False

**4. const** before the function data type prevents programmers to be able to modify the return value of

that function.

**const** inside the parameter prevents programmers from being able to modify parameter variable

value.

**const** after the parameter prevents programmers from being able to modify the implicit variables of

that functions nor be able to modify that function itself.

**5. a.** Line 2 is not allowed because line 2 is trying to modify numerator values when the first line

prevents any following lines afterward from modifying numerator values.

**b.** The compiler looks at the keyword “const” in front of Rational variable object to know if the

variable is able to modify later on or not.

**6. a.** sstream library header must be include in #include

**b.**

string s = "100 200 300";

istringstream istring(s);

**int** integer1 = 0;

**int** integer2 = 0;

**int** integer3 = 0;

istring >> integer1 >> integer2 >> integer3;

**c.**

string **Rational::toString**() **const**{

ostringstream output;

//Printing only numerator if denominator is 0

**if** (mDenominator == 0){

output << mNumerator;

}

**else**{

//Printing rational expression

output << mNumerator << "/" << mDenominator;

}

**return** "Rational: " + output.str();

}