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CECS 282 TTH

**Homework**

**2.** The memory will leak when user input a value x that is greater than or equal to 10.

**3.** Creating a new variable on the stack only when the variable store certain value that can be popped at

the end of the function or the program.

Creating a new variable on the heap only when the memory needs to be dynamic where the variable

on the stack will be pointing to the memory on the heap.

**4.** string **Rational::operator string**(){

//Printing only numerator if denominator is 0

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

**return** std::to\_string(mNumerator);

}

//Printing rational expression

**return** std::to\_string(mNumerator) + "/" + std::to\_string(mDenominator);

}

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

**return** (string)(\*this);

}

**5. double** Point::**operator-** (**const** Point p, **const** Point q){

**double** distance;

**return** distance = sqrt((q-p) \* (q-p));

}

**6. a.** False, the compiler will make a default destructor if the programmer doesn't

define one.

**b.** True

**c.** False

**d.** False