

CS250 Intro to CSII  
Overloaded Operator Lab

class Rational

1. overload << to output a Rational object in the form 1/2.
2. overload >> to input a Rational object in the form 1/2.
3. overload \* to multiply two Rational objects returning a Rational object. Do not modify either Rational object being multiplied.

class RationalSet

1. overload << to output a RationalSet object in the form {1/2 2/3 3/4}.
2. overload >> to input a RationalSet object in the form {1/2 2/3 3/4}.
3. overload \* to return the intersection of two RationalSet objects. Do not modify either RationalSet object.

RationalSet Driver

1. Create a data file called RationalSets.txt with two lines as follows:  
{1/2 2/3 3/4 4/5 5/6}  
{5/6 2/3 7/8 9/10}
2. Using the extraction operator, read in each RationalSet into two different RationalSet objects.
3. Output each RationalSet object on separate lines.
4. Find and output the intersection of the two RationalSets.