1. Please implement the following function getGCD which will return the greatest common division of a and b. You can assume that both a and b are greater than 0.

```
int getGCD(int a, int b)
```

Hint: You can implement getGCD by Euclid's algorithm described in https://en.wikipedia.org/wiki/Greatest_common_divisor

2. Please finish the following class.

```
class RationalNumber
{
 private:
 public:
   RationalNumber()
    {
         // set the RationalNumber of 1
    }
    RationalNumber(int numerator, int denominator)
         // initialize the RationalNumber to \frac{numerator}{denominator}
         // you can assume that denominator will not be 0
    }
    void toCompact(void)
         // use cout to print the RationalNumber in the form of \frac{p}{a} where p and
         // q are coprime.
    }
    // use operator overloading to that RationalNumber can be used in
    // addition(+), deletion(-), multiplication (*)
}
```

RationalNumber should be able to be used in the following code segment.

```
void main()
{
  RationalNumber r1, r2(2,3), r3(6,3);
```

```
r1.toCompact();
r2.toCompact();
r3.toCompact();
r1=(r2+r3)*r2-r3;
r1.toCompact();
}
```