```
1 //Task_2, part_1
2 class Rational(n:Int, d:Int) {
     require(d != 0)
     val numer: Int = n
     val denom: Int = d
     def this(n: Int) = this(n,1)
     override def toString = numer +"/"+ denom
9
10
     def + (that: Rational): Rational =
11
       new Rational(
12
         numer * that.denom + that.numer * denom,
13
         denom * that.denom
14
15
     def - (that: Rational): Rational =
16
       new Rational(
17
         numer * that.denom - that.numer * denom,
18
         denom * that.denom
19
20
21
22
     def * (that: Rational): Rational =
     new Rational(
23
24
        numer * that.numer,
         denom * that.denom
25
26
27
     def / (that: Rational): Rational =
28
     new Rational(
29
30
         numer * that.denom,
31
         denom * that.numer
32
33
     def gcd(a: Int, b: Int): Int =
34
      if (b == 0) a else gcd(b, a % b)
35
36 }
```