Homework 1 – Software 2

**2.**

**a)** < 2, 4, 6 > = a \* <i> \* <j> \* b

a = <>

<i> = < 2, 4 >

<j> = < 6 >

B = <>

S2 = <> \* <(<2 , 4> + <6>)/2> \* d

S2 = <(< 8, 10>)/2>

**Seq1 = <2, 4, 6 >**

**Seq2 = < 4, 5 >**

**b)** Since @ensures |s2| = |s1| - 1

**Seq1 = < 7 >**

**Seq2 = < >**

**c)** It is impossible to tell, as the inputs violate the @requires clause.

**d)** *Smooth* takes the integers of Seq1, and puts them into Seq2 with 1 less integer, but a similar total value.