

Homework 1 – Software 2

2.

a) $\langle 2, 4, 6 \rangle = a * \langle i \rangle * \langle j \rangle * b$

$a = \langle \rangle$

$\langle i \rangle = \langle 2, 4 \rangle$

$\langle j \rangle = \langle 6 \rangle$

$B = \langle \rangle$

$S2 = \langle \rangle * \langle (\langle 2, 4 \rangle + \langle 6 \rangle) / 2 \rangle * d$

$S2 = \langle \langle 8, 10 \rangle / 2 \rangle$

Seq1 = $\langle 2, 4, 6 \rangle$

Seq2 = $\langle 4, 5 \rangle$

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

Seq1 = $\langle 7 \rangle$

Seq2 = $\langle \rangle$

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.