CSC 421 – Assignment 2
Write up – Adar Guy & Tate Nychyporuk

Question 2

Sample Domain:

{(fall_2016, 1, 08:00-09:00), (fall_2016, 1, 09:00-10:00), …, (fall_2016, 1, 17:00-18:00),
 (fall_2016, 2, 08:00-09:00), (fall_2016, 2, 09:00-10:00), …, (fall_2016, 2, 17:00-18:00),
 (fall_2016, 3, 08:00-09:00), (fall_2016, 3, 09:00-10:00), …, (fall_2016, 3, 17:00-18:00),
 (fall_2016, 4, 08:00-09:00), (fall_2016, 4, 09:00-10:00), …, (fall_2016, 4, 17:00-18:00),

 (spr_2017, 1, 08:00-09:00), (spr_2017, 1, 09:00-10:00), …, (spr_2017, 1, 17:00-18:00),
 (spr_2017, 2, 08:00-09:00), (spr_2017, 2, 09:00-10:00), …, (spr_2017, 2, 17:00-18:00),
 (spr_2017, 3, 08:00-09:00), (spr_2017, 3, 09:00-10:00), …, (spr_2017, 3, 17:00-18:00),
 (spr_2017, 4, 08:00-09:00), (spr_2017, 4, 09:00-10:00), …, (spr_2017, 4, 17:00-18:00),
…
}

Constraints:

Term-Slot Constraints:

    Suppose that an assignment A has (termX, slotX, timeX) for X and (termY, slotY, timeY) for Y. Then, A is consistent if (termX, slotX) != (termY, slotY).

Time-Slot Constraints:

    Suppose that an assignment A has (termX, slotX, timeX) for X and (termY, slotY, timeY) for Y. Then, A is consistent if (termX = termY) ^ (timeX != timeY).

Perquisites Constraints:

    Suppose that an assignment A has (termX, slotX, timeX) for X and (termY, slotY, timeY) where X is a prerequisite of Y. Then, A is consistent if (termX < termY).

Question 3

The zebra lives in the 5th house.

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{blue=2, chesterfield=2, coffee=5, dog=4, englishman=3, fox=1,
green=5, horse=2, ivory=4, japanese=5, kools=1, lucky-strike=4,
milk=3, norwegian=1, old-gold=3, orange-juice=4, parliament=5,
red=3, snails=3, spaniard=4, tea=2, ukrainian=2, water=1,
yellow=1, zebra=5}
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