

Variables: The set of courses C where $C = \{\text{CSC 110, CSC 115, ... CSC 421, ...}\}$ such that completion of every course inside C is required to graduate with a degree in computer science.

Domains: The set of domains D such that each domain in $D = \{\text{term, termSlot, timeslot}\}$ defines a course that is offered, in the form $\{\text{spring2017, 2, 8:30-9:20 TWF}\}$.

Constraints: The set of constraints $\{C1, C2, C3, C4\}$ such that:

- C1: Let X and Y be two courses where Y is a prerequisite for X . Suppose that an assignment A has $\{\text{termX, termSlotX, timeX}\}$ for X and $\{\text{termY, termSlotY, timeY}\}$ for Y , then A is consistent if $\text{termX} > \text{termY}$, assuming “ $>$ ” means “later in time”.
- C2: Let X be a course. Suppose that an assignment A has $\{\text{termX, termSlotX, timeX}\}$ for X . A is consistent if A has $\text{termX} \neq \text{null}$ (representing the idea that a course is valid even if it's not offered every term by saying it only needs to be offered in 1 term)
- C3: Assignment A has $(\text{termX, termSlotX, timeX})$ for X and $(\text{termY, termSlotY, timeY})$ for Y . Then, A is consistent if $(\text{termX, termSlotX}) \neq (\text{termY, termSlotY})$
- C4: Let X and Y be two courses X and Y . Suppose that an assignment A has $\{\text{termX, termSlotX, timeX}\}$ for X and $\{\text{termY, termSlotY, timeY}\}$ for Y , then A is consistent if $(\text{termSlotX} \neq \text{termSlotY} \text{ and } \text{timeX} \neq \text{timeY})$.