Lab Assignment 4

CS 362 - Principles of Programming Languages II

Winter 2018

Problems

- Implement a predicate median (A, B, C, X) stating that X is the median of the numbers A, B, and C
- Implement a predicate contains (L, X) stating that the list L contains X, i. e., $X \in L$.
- Implement a predicate largerEqual(L, X) stating that X is larger than or equal to every element in the list L. Formally, it should be equivalent to the statement $\forall y \in L \colon X \geq y$.
- Implement a predicate max(L, X) stating that X is the maximum of the numbers in the list L. Your predicate should be made of a single rule using only the predicates contains and largerEqual.

To compare two numbers X and Y, you can use X =< Y to check if X \leq Y, X >= Y to check if X \geq Y, X = Y to check if X = Y, and X =\= Y to check if X \neq Y.

Submission

Write your implementation in a single .pl-file and upload it to canvas.

This is an individual assignment. Therefore, a submission is required from each student.

Deadline: Sunday, February 11, 11:59 pm.