



## General Remarks

- Please hand in your solutions in groups of 3. Either hand in your solutions at the beginning of the exercise class or put them into the box at the chair.
- If you have questions regarding the exercises and/or lecture, feel free to write us an email or visit us at our office.

### Exercise 1 (Interprocedural Interval Analysis):

(1 Points)

Specify the interprocedural dataflow system  $S$  for interval analysis.

### Exercise 2 (Fixpoint vs. MVP vs. MOP Solution):

(6 Points)

Let  $S$  be an (interprocedural) data flow system. Prove or disprove:

- $mop(S) \sqsubseteq mvp(S)$
- $mvp(S) \sqsubseteq mop(S)$
- $mop(S) \sqsubseteq fix(S)$
- $fix(S) \sqsubseteq mop(S)$
- $mvp(S) \sqsubseteq fix(S)$
- $fix(S) \sqsubseteq mvp(S)$