



Axiomatic Semantics

- Will consider axiomatic semantics (A.S.) of IMP:
 $\langle \text{stmt} \rangle ::= \mathbf{skip} \mid \langle \text{assign} \rangle \mid \langle \text{if} \rangle \mid \langle \text{while} \rangle \mid \langle \text{stmt} \rangle; \langle \text{stmt} \rangle$
 $\mid \langle \text{input} \rangle \mid \langle \text{output} \rangle$
Only integer vars; no procedures/fns; vars declared implicitly
- **References:**
Kurtz (ch. 11); Pagan (ch. 4.3)
- **Summary:**
For each type of $\langle \text{stmt} \rangle$, will define its a.s. via an *axiom* or *rule of inference* (or just *rule*).
Using these, will be able to show (i.e., derive) that a given program behaves according to its specification.

Axiomatic Semantics

JS Bruner



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