Proving Programs Correct
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- HipSpec: Inductive Prover for Haskell
  - Discovers many interesting properties automatically.
  - **Project:** Application to FM models.
  - **Project:** Discovery of conditional lemmas.
  - **Project:** Integration with compiler (GHC).
- Dafny language (Microsoft Research):
  - Specification built in to language.
  - Automated proof tools to verify properties.
  - **Project:** Automated discovery of useful lemmas