General Tips

Functional:

- Invariants that can be used to prove function

Administrative:

- small informative variables
- Comments in function definition, if, while, for, etc.
- pre/post conditions, loop invariant
- input/output types
- test null and all possible inputs (and outputs)
- Initial a variables you get from else where as null then get them (just in case there's an issue getting them) and test if null

Proving code:

- Preconditions, postconditions, assertions, loop invariants
- connect algorithmic ideas to imperative programs
- proofs + contracts = correctness and safety of code