- 1. "all dogs are pets," premise
- 2. "some dogs are dogs," premise
- 3. "all dogs are sweethearts," premise
- 4. "some dogs are pets," 1, 2 application of all to some
- 5. "some pets are dogs," 4 reflexivity of some
- 6. "some pets are sweethearts," 3, 5 application of all to some