PHI 2100 - 53520 // LOGIC
Wed, 9-19-07
26 Students

We went over the ONLINE quite process.

P.S. I apologize for smashing my cell phone into the floor.
(Note - If did not break.)

MORE on §1.5: Arg Forms – Proving Invalidity
(P. 52). — Worked Problems.

1. P. 58 #1.
   \[ \text{[dogs, cats, fish, mammals, animals]} \]
   Read the problem in the book. — 3 steps to solve!
   1. **Dictionary**
   2. **Symbolize**

   - **G**: Galaxies
   - **S**: Structures that contain black holes in the center.
   - **Q**: Quasars

   \begin{align*}
   \text{All } G & \text{ are } S. \\
   \text{All } Q & \text{ are } S. \\
   \text{All } G & \text{ are } Q. \\
   \end{align*}

   2. All cats are mammals.  
   All dogs are mammals.  
   All dogs are cats.

   This is a counterexample.

2. P. 59: #3. **Dictionary**

   - **H**: Human rights are recognized.
   - **C**: Civilization flourishes.
   - **E**: Equality prevails.

   \begin{align*}
   \text{If } H & \text{ then } C. \\
   \text{If } E & \text{ then } C. \\
   \text{If } H & \text{ then } E. \\
   \end{align*}

   Use: Road Blocks, Break-downs, Bad Traffic.

3. If there is a road block, then there is "bad traffic."
   If someone has broken down, then there is "bad traffic."
   If there is a road block, then someone has broken down.

The CounterExample →