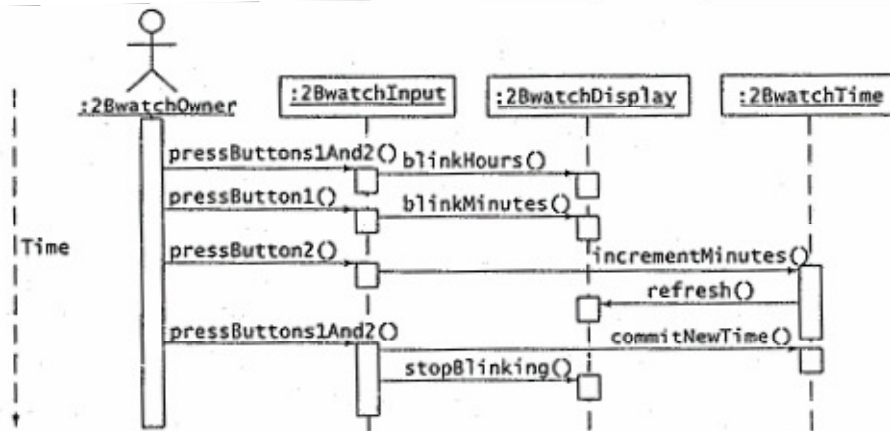


## Homework 3 (2007-09-21)

**Submission deadline: 2007-09-27**

**Question 1:** Draw class diagram corresponding to this sequence diagram



**Question 2:** Consider "Academic Payroll System for University" (Introduced in Question 4 of Homework 2) and based on example on page 206 of textbook, develop a requirement analysis document which includes:

1. Identified objects (entity, boundary, control) also describe the heuristics you use.
2. UML sequence diagrams for the problem.
3. UML class diagrams for the problem.
4. Inheritance hierarchy among entity objects.

**Question 3:** Draw state-chart describing the behavior of the AnnounceTournamentControl object based on the sequence diagrams of figure 5-26 through 5-28. (Bonus point 01)

\* Treat the sending and receiving of each notice as an event that triggers a change of state.

**Question 4:** Consider the problem description for "Advert Consultancy Inc" (Introduced in Question 5 of Homework 2) and based on example on page 206 of textbook, develop a complete requirement analysis document which should include:

1. Identified entity objects.
2. Identified boundary objects.
3. Identified control objects.
4. Map the use cases you developed in Homework 2 to identified objects with sequence diagrams.
5. UML class diagrams.
6. Inheritance relationships among objects identified in step 1-3.
7. State-chart diagrams for objects identified in step 1-3.

\* This is an important question, as we will continue it for project as well. Do it carefully and completely.