Exercises on refinement

The sequence diagrams for the exercises are on the next page.

- 1. Calculate the semantics of each of the sequence diagrams Ex1, Ex2 and Ex3.
- 2. Answer the following:
 - a. Is Ex2 a refinement of Ex1?
 - b. Is Ex1 a refinement of Ex2?
 - c. Is Ex3 a refinement of Ex1?
 - d. Is Ex1 a refinement of Ex3?
- 3. Make a specification called MySpec that is a refinement of Ex3.
 - a. Is Ex1 a refinement of MySpec?
 - b. Is MySpec a refinement of Ex1?
- 4. Is Ex7 a refinement of Ex6?
- 5. Consider the sequence diagrams Ex1 and Ex6. Does the refinement relation hold between these specifications?
- 6. Draw a sequence diagram that specifies exactly 5 traces
- 7. Draw a sequence diagram that specifies exactly 10 traces
- 8. Give a general strategy for how to draw a sequence diagram that specifies exactly 10, 20, 40, 80, etc. traces













