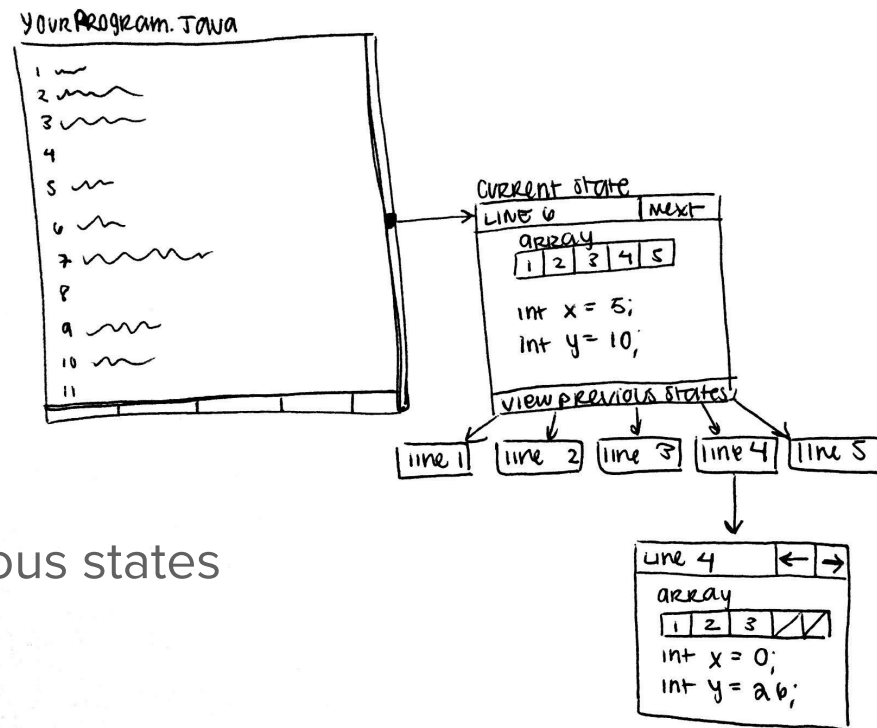# RewinDB

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Motivation

- Time consuming cyclic debugging
- Current solutions:
  - Capture entire stack frame over every step. Heavy!
  - Chronon - DVR for Java
    - Wait until program to finish executing
    - No live debugging

Approach

- "Records" instead of undo
  - Catch irreproducible bugs
  - Solves irreversible execution
  - E.g. network calls
- Only store a small number of previous states
  - Faster!
  - Less memory
  - Often times, we only overstep by a few steps
- Still allows for step-by-step live debugging

Risks and Challenges

- What data to store? How?
- Heavy overhead during recording
- User friendly UI