## ABAs

- Problem
  - impracticality due to state space explosion
  - → state space explosion due to reallocations
- Observation
  - → verification under GC instead of SMR is unsound
  - discrepancy manifests as ABA

## State Space Reduction

Theorem 1:

Verifying a data structure under garbage collection is sound, if data structure + SMR spec it is free from ABAs.