Pointer Race Check

Type system:

→ to establish:

Data structure + SMR spec - Pointer Race Freedom

- → that is parametrized by the SMR spec
- → externalizes shape analysis to a GC tool

External Shape Analysis

- Problem
 - → danglingness may depend on shape invariant
 - → type checks bad at finding shape invariants
- Solution
 - → "don't try"
 - → annotate data structure with light-weight annotations
 - → discharge annotations under garbage collection
 - guess&check finds annotations automatically