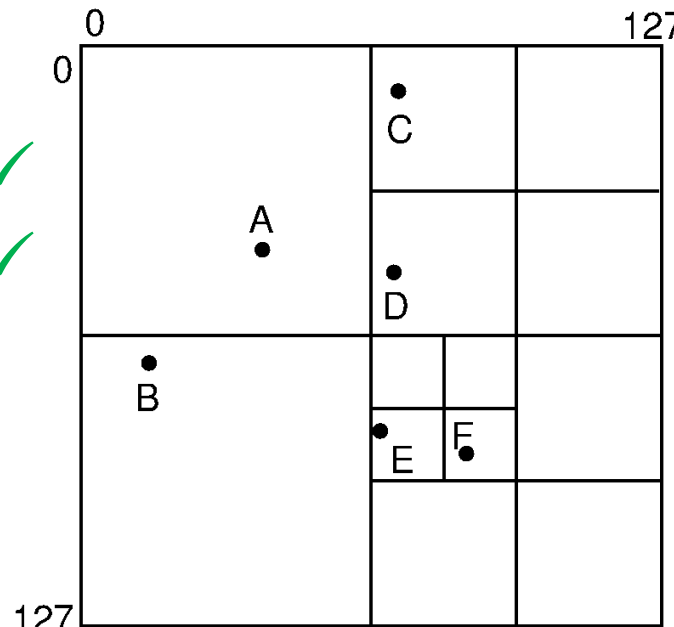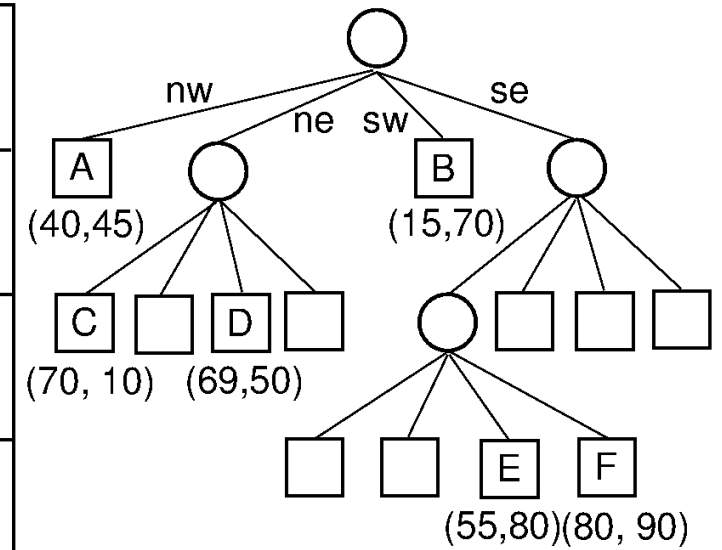# Quadtree

- AxisAlignedBoundingBox ✓ → AxisAlignedBoundingBox & MetaBoundingBox
- Quadtree ✓ → Quadtree
  - Insert ✓ → Quadtree & AxisAlignedBoundingBox
  - Search O(log(n)) ✗ → QueryRegion(MetaBoundingBox)
  - Begin & End ✓ → QuadtreeIterator

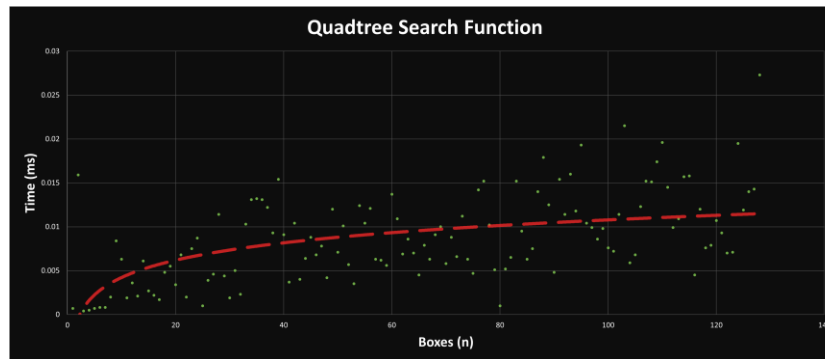- MetaBoundingBox → Hashing ✓
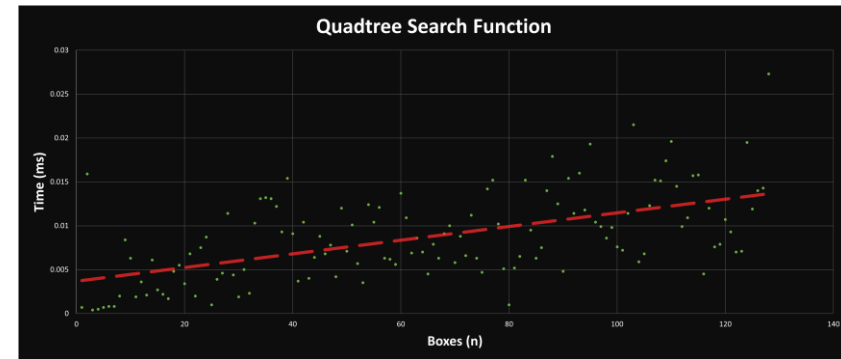- QuadtreeIterator → Operators ✓

(a)

(b)

Graphs
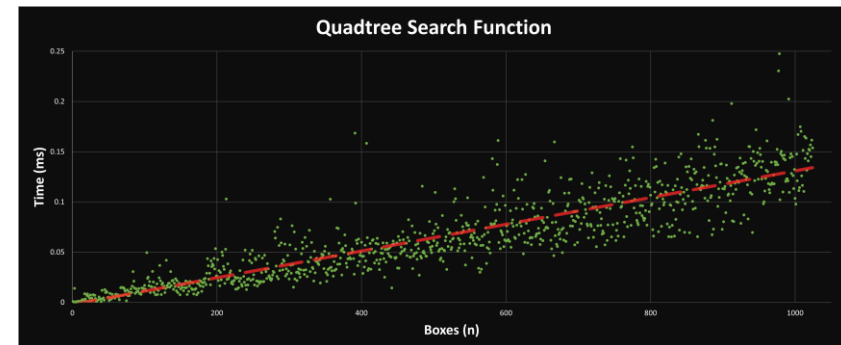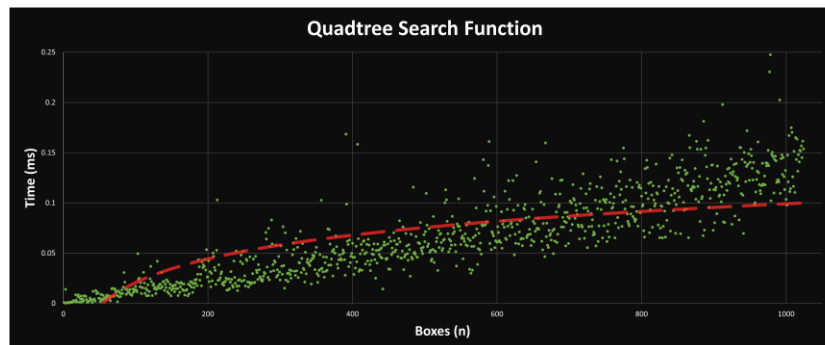
Logaritmic O(log(n))

Linear O(n)

n = 128

n = 1024

n = 8192