

# Thesis on External Range Reporting

Agenda for March 16, 2016

## Since last meeting

1. Report
  - (a) Main data structure: Started documenting theory
2. Coding
  - (a) Refactored the whole thing to event stack loop to better grasp the recursion
  - (b) Main data structure: Query fix up
    - i. Rewritten split leaf function to handle more splits simultaneously
    - ii. Rewritten split node function to handle more splits simultaneously
  - (c) Main data structure: Global rebuilding

## Plan until next meeting

1. Report
  - (a) Main data structure: Finish documenting theory
  - (b) Main data structure: Document implementation details
2. Coding
  - (a) Rewrite insert buffer overflow to handle more elements to overflow
  - (b) Same for delete buffer
  - (c) Finish query fixup
  - (d) Construction in  $\mathcal{O}(N/B)$
  - (e) Testing of global rebuilding

## Questions and remarks

1. We take a break from 21.-28. March