

DM819 - Computational Geometry

Fall 2015

Project 2

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Introduction

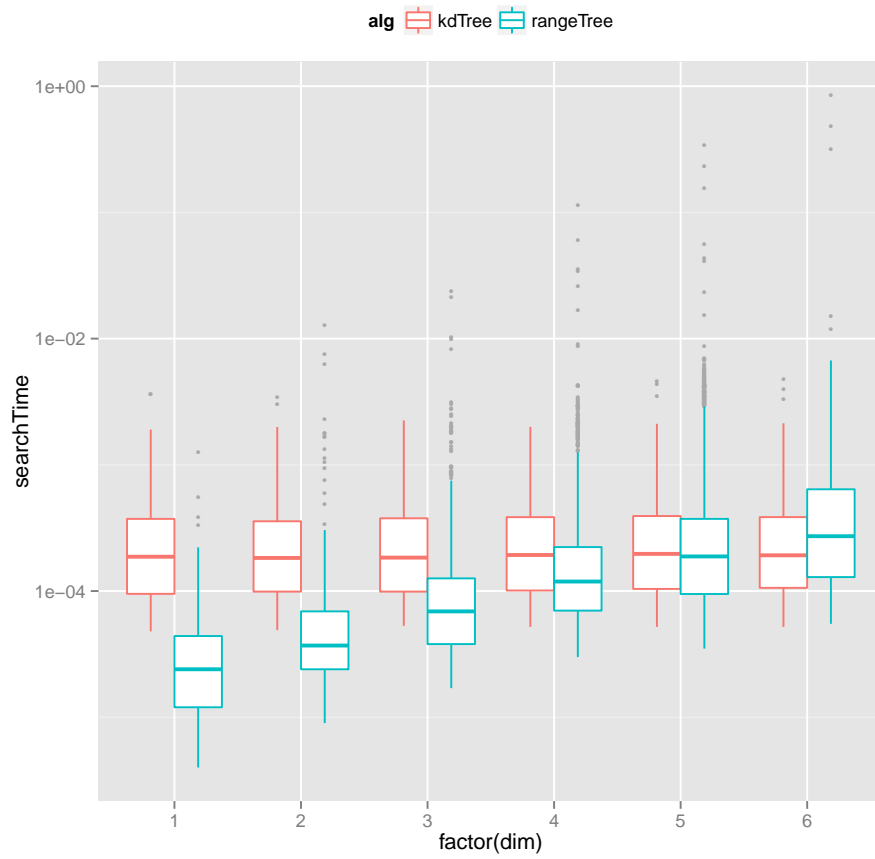
1 KD-Tree

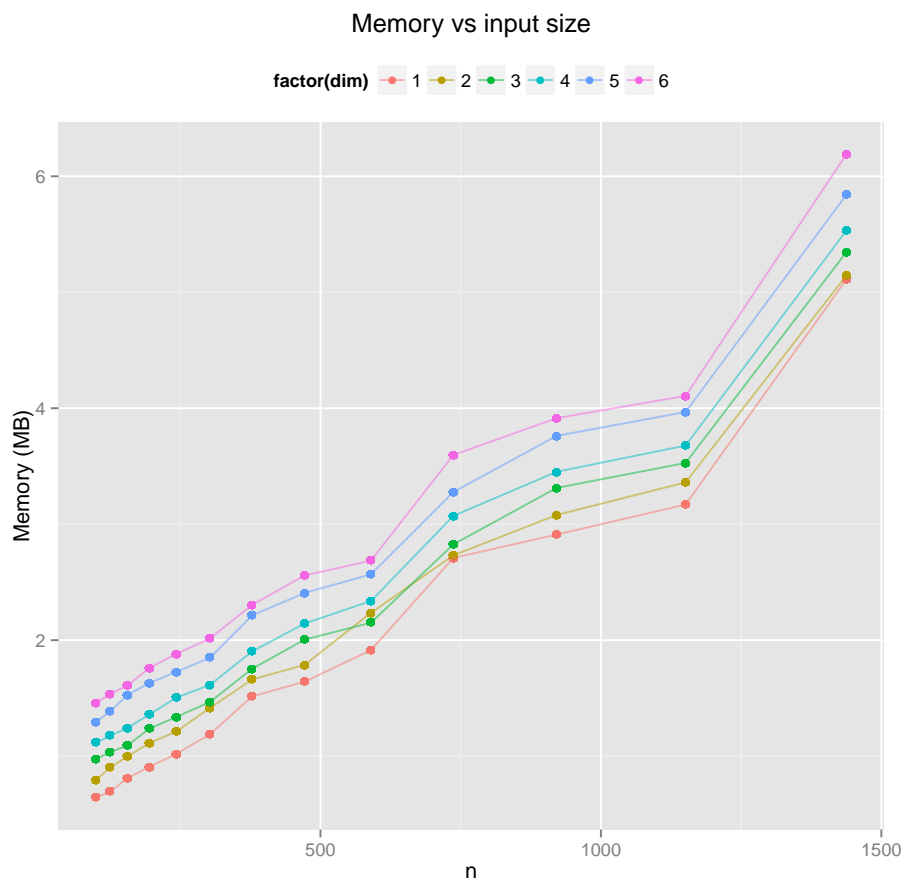
1.1 Complexity

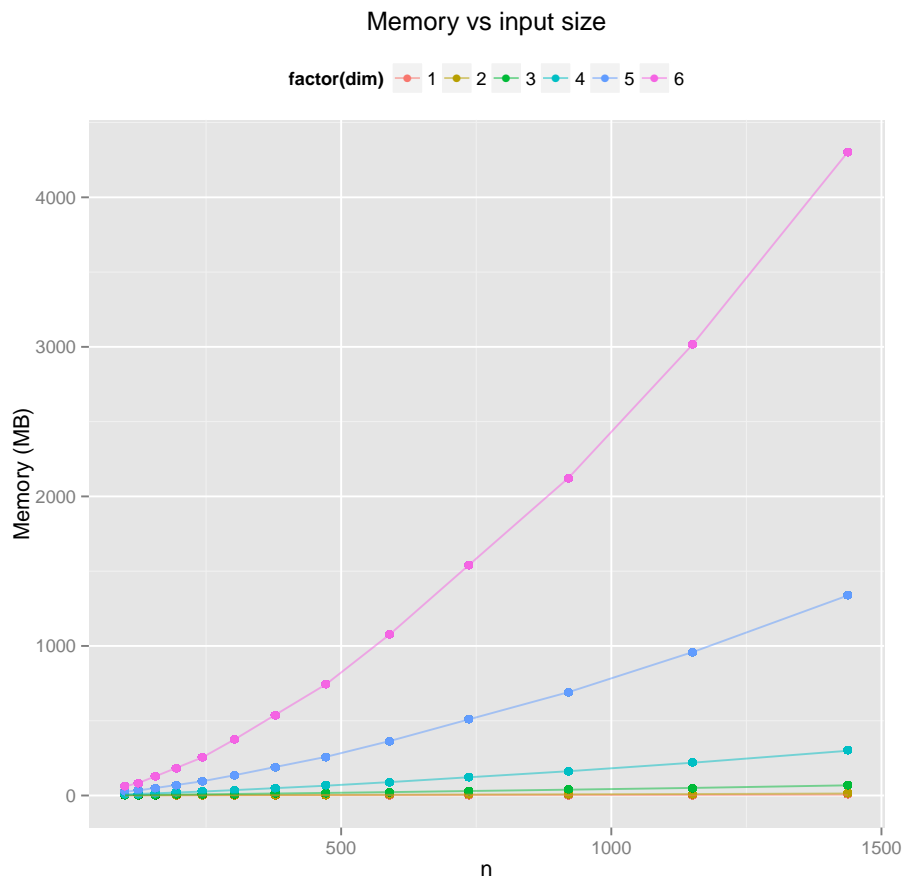
2 Range-Tree

2.1 Complexity

3 Test







4 Manual

4.1 File Structure

```

ROOT
|-- report/
'-- src
    |-- kdtree
    |   |-- inspect.lua
    |   |-- kdtree.lua
    |   '-- test.lua
    |-- R
    |   '-- makePlots.R
    |-- rangeTree
    |   |-- inspect.lua
    |   |-- middleclass

```

```
| | '-- middleclass.lua
| |-- RangeTree.lua
| '-- test.lua
|-- results/
|-- runTests.py
'-- tests
    |-- createCustomTest.lua
    |-- dimension_1/
    |-- dimension_2/
    |-- dimension_3/
    |-- dimension_4/
    |-- dimension_5/
    |-- dimension_6/
    |-- genTestSuite.lua
    '-- inspect.lua
```

5 Conclusion