

FALL 2021

T-301-REIR, ALGORITHMS

S3: KD-TREES

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GROUP S2-XX

SEPTEMBER 29, 2021

TA:

1 Implementation

Node

Range Search

Nearest Neighbor Search

2 Analysis

Memory

bytes per Point2D: 32 bytes

bytes per RectHV:

bytes per KdTree of N points (using tilde notation): \sim

Running Time

Table 1: !Insert caption!

calls to `nearest()` per second

	<i>brute force</i>	<i>2d-tree</i>
input100K.txt		
input1M.txt		

Nearest Neighbor

3 About This Solution

Have you taken (part of) this course before:

Hours to complete assignment (optional):

3.1 Known Bugs / Limitations.

3.2 Help Received

3.3 Problem Encountered

3.4 Comments