CS509 PG Software Lab
Observation Report of Experiments performed on KD-tree
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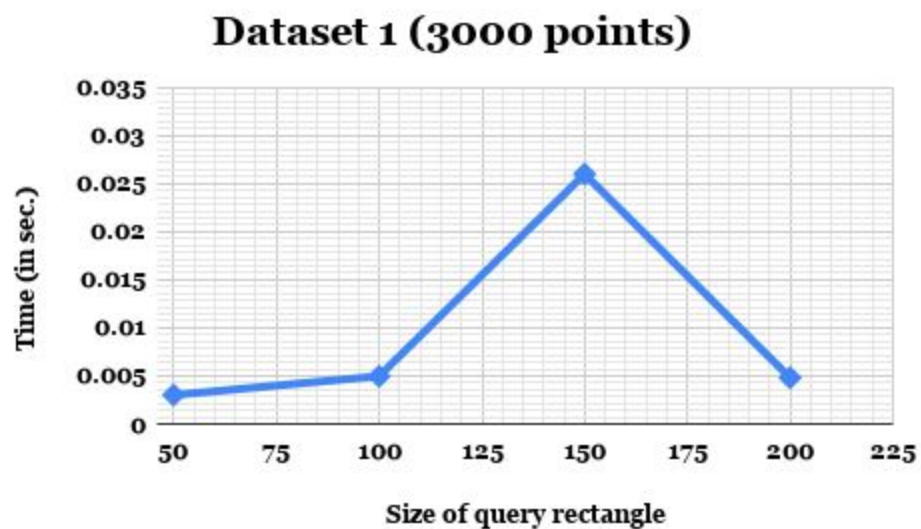
Experiment 1

Input Set	Height of Generated KD–tree
Dataset 1 (3000 points)	10
Dataset 2 (4000 points)	11
Dataset 3 (5000 points)	11

Experiment 2

Input Set: *3000 points between (0,0) and (90,90)*
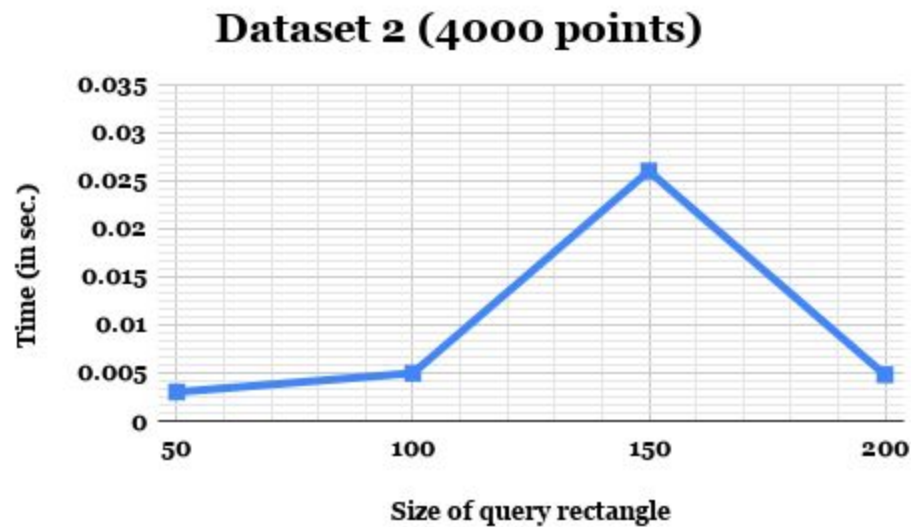**Operation:** *Range query on rectangles of area 50, 100, 150 and 200.*

Graph 1: Average running time of range queries on dataset 1

Experiment 3

Input Set: *4000 points between (0,0) and (90,90)*
Operation: *Range query on rectangles of area 50, 100, 150 and 200.*
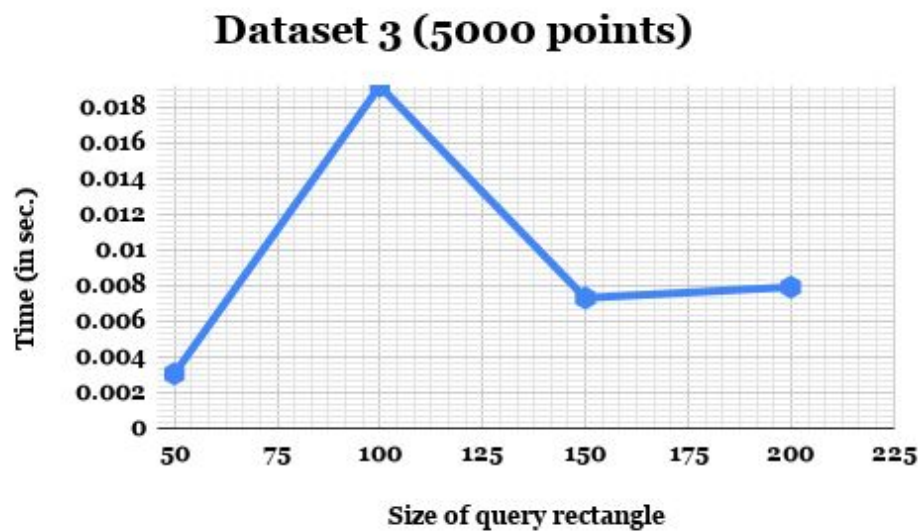

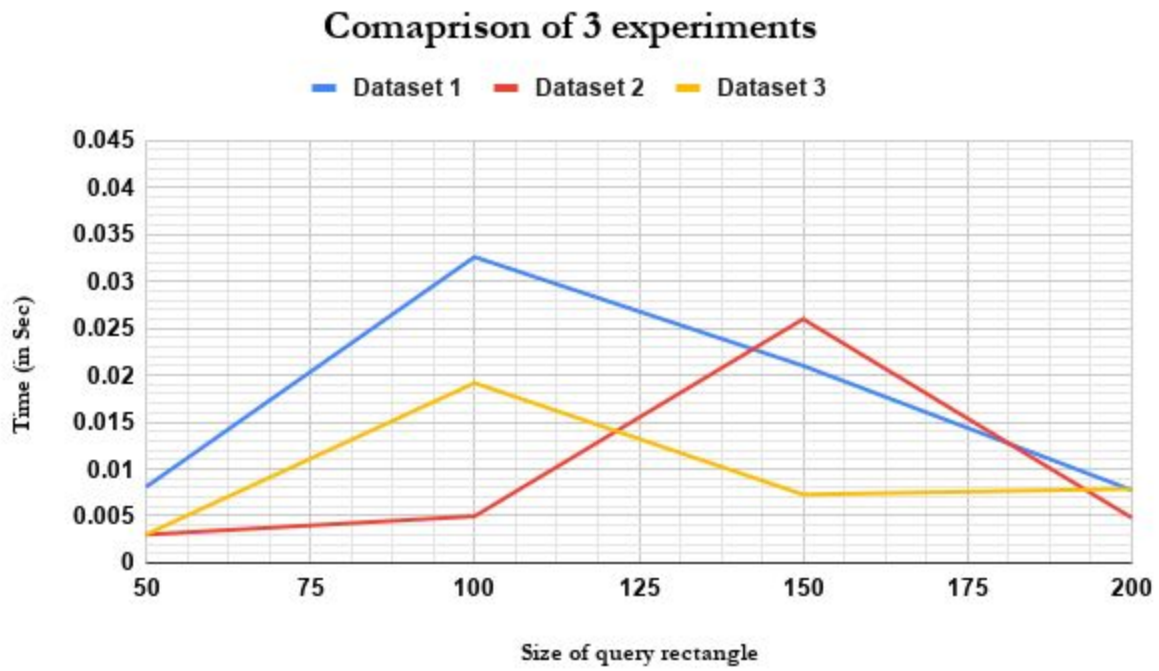Graph 2: Average running time of range queries on dataset 2

Experiment 4

Input Set: *5000 points between (0,0) and (90,90)*
Operation: *Range query on rectangles of area 50, 100, 150 and 200.*

Graph 3: Average running time of range queries on dataset 3

Comparison of three observation sets

Graph 4: Average running time of range queries (Comparison)