Point Location

Introduction

- Performance Measurements

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❖ Preprocessing time

time needed to preprocess the subdivision

into a certain data structure that

supports efficient PL queries

❖ Storage cost

memory required to

store and maintain the data structure

❖ Query time

    time required to respond to an individual query

❖ [Lower Bound]

    $\Omega(\log n)$ is required to answer each on-line query

❖ Update time

    Time needed to maintain the structure, in case

        the input subdivision is dynamic, i.e.,

           insertions and deletions are allowed