Segment Tree

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Introduction

Segment tree

# Segment Tree

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https://github.com/projetosufal/
data-structures-project

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# Outline

**1** Introduction

**2** Segment tree

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# Stock Exchange

## The problem

- Data from thousands of companies worldwide, active for decades
- Usage of multiple operations requiring da range/interval of time required
- Efficiency demand

## O(n) operations?

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## How it is structured?

The Segtree is a binary tree that's represented from a array, where each node represents a unique interval or segment of the tree and stores a specific value.
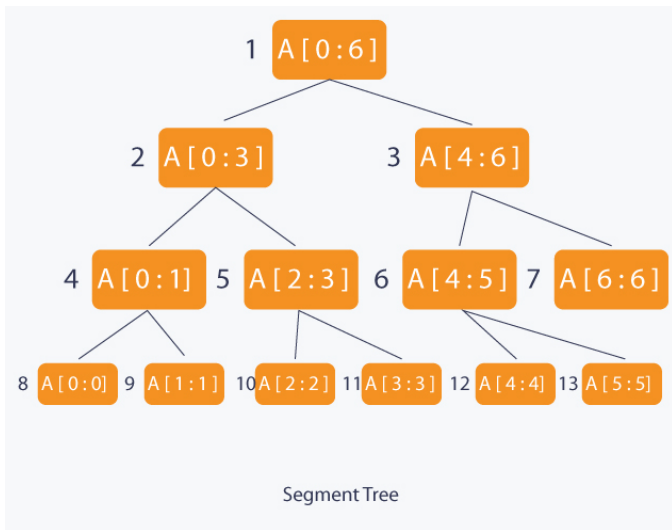
## For what purpose?

The value, are usually represented by *maximum*, *minimum* or *sum* of the segment. The goal is acess these values as a search within a range.

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