

Priority Queue

An Introduction

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Sample Frame

A Binary (Max) Heap is a complete binary tree that maintains the Max Heap property.

Binary Heap is one possible data structure to model an efficient Priority Queue (PQ) Abstract Data Type (ADT). In a PQ, each element has a "priority" and an element with higher priority is served before an element with lower priority (ties are broken with standard First-In First-Out (FIFO) rule as with normal Queue). Try clicking ExtractMax() for a sample animation on extracting the max value of random Binary Heap above. To focus the discussion scope, we design this visualization to show a Binary Max Heap that contains distinct integers only.

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Simulation

Another Simulation

Table	X	Y
A	1	0
B	0	1

Another Simulation

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Use of Columns and Images

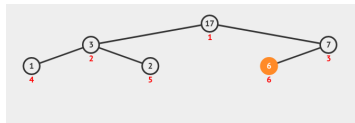
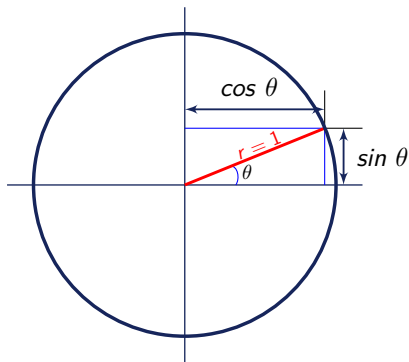


Figure: Alternate representation of Pythagorean theorem.

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Blocks

Sample Block

This is a sample block.

Sample Alert Block

This is a sample alert block.

Example

Sample example.

Blocks

Sample Block

This is a sample block.

Sample Alert Block

This is a sample **alert block**.

Example

Sample example.

Blocks

Sample Block

This is a sample block.

Sample Alert Block

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Example

Sample **example**.

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