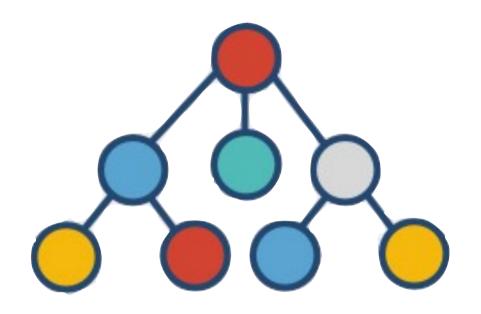
DATA STRUCTURE & ALGORITHMS



(By Prince Agarwal)
["HELLO WORLD"]

BINARY HEAP



- → It's a complete tree
- → All levels are completely filled except possibly the last level and the last level has all keys as left as possible
- → This property of Binary Heap makes them suitable to be stored in an array.

A Binary Heap is either Min Heap or Max Heap

In a Min Binary Heap,

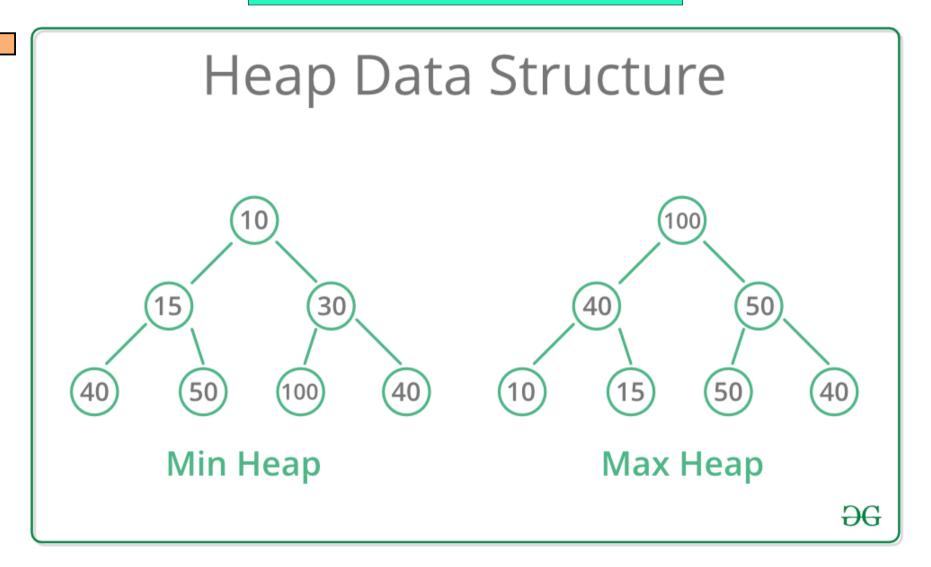
the key at root must be minimum among all keys present in Binary Heap

In a Max Binary Heap,

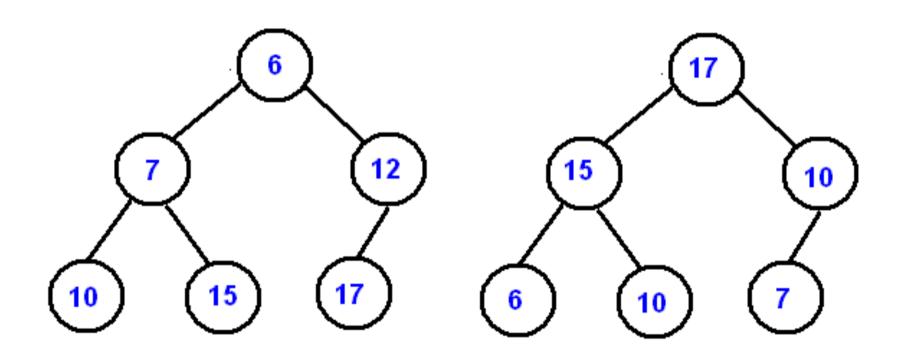
the key at root must be Maximum among all keys present in Binary Heap

Hello world

BINARY HEAP



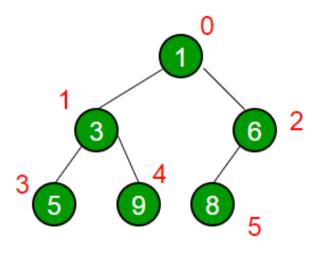




BINARY HEAP

HEAP

- → A binary heap is typically represented as an array.
- → The root element will be at Arr[0].





→	Below table shows indexes of other nodes
	for the i th node, i.e., Arr[i]:

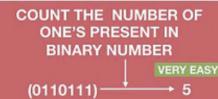
Arr[(i-1)/2]	Returns the parent node
Arr[(2*i)+1]	Returns the left child node
Arr[(2*i)+2]	Returns the right child node

Hello world



Check the ith bit is set, in the binary form of given numbe...

1.1K views • 1 year ago



#COMPETITIVE PROGRAM 13:44

Count the number of one's in binary representation of...

1.6K views • 1 year ago



Check a given number is power of 2 | Bitwise operato...

3.2K views • 1 year ago



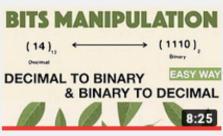
Left shift and right shift bitwise operator ||...

1.4K views • 1 year ago



Bitwise Operators | AND | NOT | OR | XOR || Competitiv...

1.8K views • 1 year ago



Bits Manipulation | Decimal to Binary | Binary to Decimal...

1.5K views • 1 year ago



Program of Two vs Ten Codechef - TWOVSTEN ||...

1.3K views • 1 year ago



Program of chef and his daily routine - CHEFROUT II...

1.7K views • 1 year ago



Euclidean algorithm for finding GCD of 2 numbers ||...

2K views • 1 year ago



Sieve of Eratosthenes -part 2 || Competitive programming...

2.2K views • 1 year ago



Sieve of Eratosthenes -part 1 || Competitive programming...

B.4K views • 1 year ago



#COMPETITIVE PROGRAM 13:38

Program and concept of prime numbers. ||...

2.1K views • 1 year ago



12:00

memset() function in C/C++ and its syntax. || Competitiv...

4.3K views • 1 year ago



problem of Fancy Quotes || getline() in strings --FANCY...

2.1K views • 1 year ago



Concept of Handling the String related problems -...

3.4K views • 1 year ago

If You loved it: SHARE IT Subscribe and Comment Below

https://www.facebook.com/helloworldofficials