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CS213 Q 1: Lecture 12 : Considering the basic principles of a max heap data structure, indicate which of the following statements are true and which are false:

A max heap has the properties of a binary search tree.

In a max heap, all leaf nodes hold the same value.

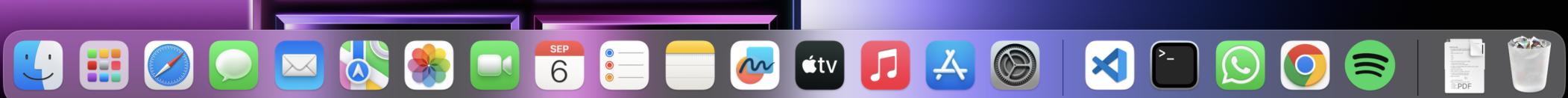
In a max heap, the insertion of a new element always involves placing it in the leftmost available position at the lowest level before performing a "heapify" operation to maintain the heap property.

In a max heap, the tree is always a complete (as defined in the websites) binary tree, meaning all levels are fully filled except possibly the last, which is filled from left to right.

Answer

Note: please be careful before submitting the answer. You will not be able to change the answers.

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CS213 Q 1: Lecture 12 : Considering the basic principles of a max heap data structure, indicate which of the following statements are true and which are false:

You have answered the following:

- A max heap has the properties of a binary search tree. (You are correct)
- In a max heap, all leaf nodes hold the same value. (You are correct)
- In a max heap, the insertion of a new element always involves placing it in the leftmost available position at the lowest level before performing a "heapify" operation to maintain the heap property. (You are correct)
- In a max heap, the tree is always a complete (as defined in the websites) binary tree, meaning all levels are fully filled except possibly the last, which is filled from left to right. (You are correct)

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