



DSA INT2210 21 - Assignment 5

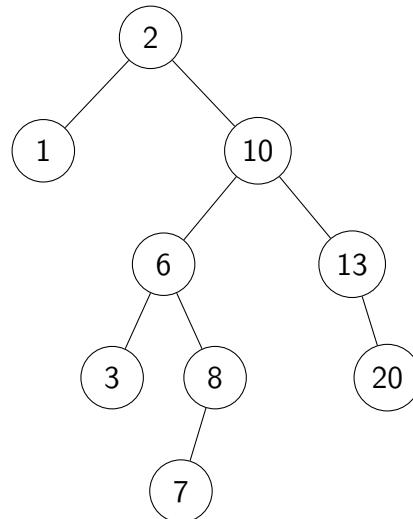
Nguyễn Đình Hoàng - 20021361

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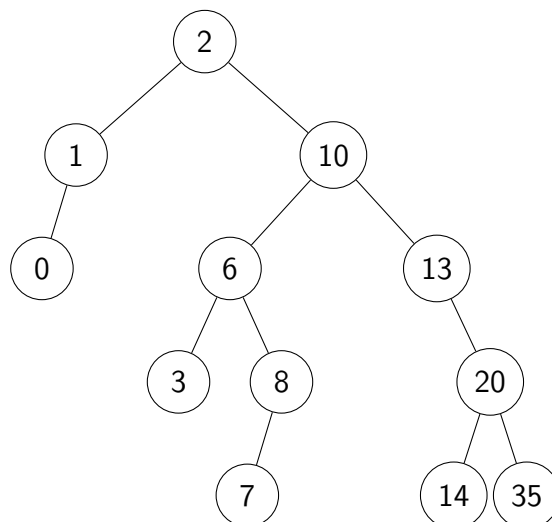
Name: Nguyễn Đình Hoàng - 20021361

1. Code attached below
2. Given a list of integer numbers: 2, 1, 10, 6, 3, 8, 7, 13, 20.

(a) Draw the binary search tree

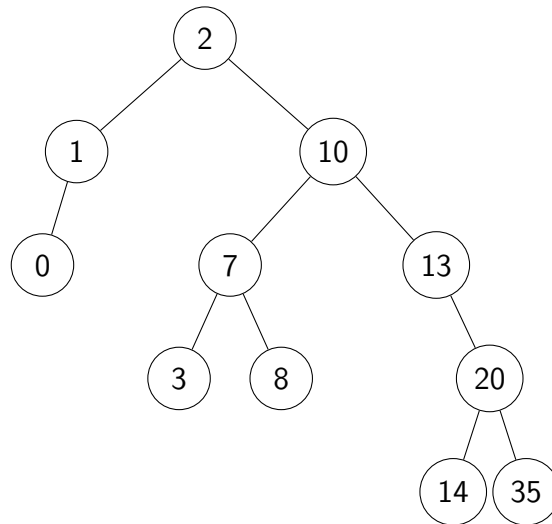


(b) Draw the binary search tree after inserting values: 14, 0, 35

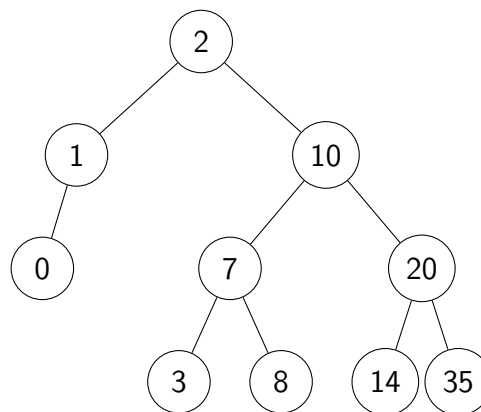


(c) Draw the binary search tree after deleting: 6, 13, 35

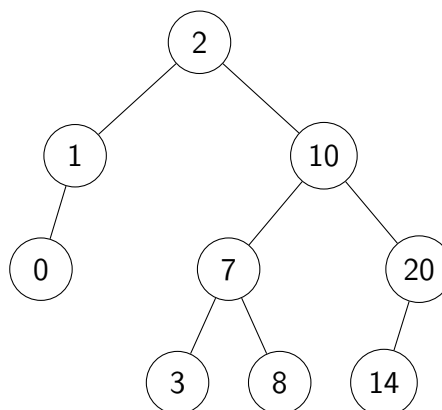
Delete 6:



Delete 13:

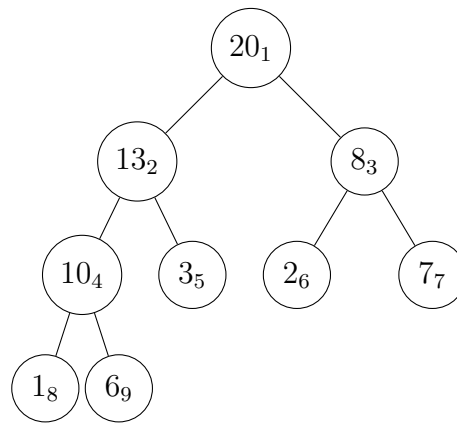


Delete 35:



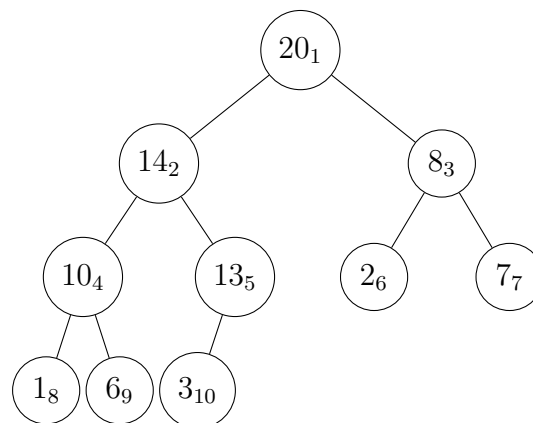
3. Given a list of integer numbers: 2, 1, 10, 6, 3, 8, 7, 13, 20.

(a) Draw the heap tree

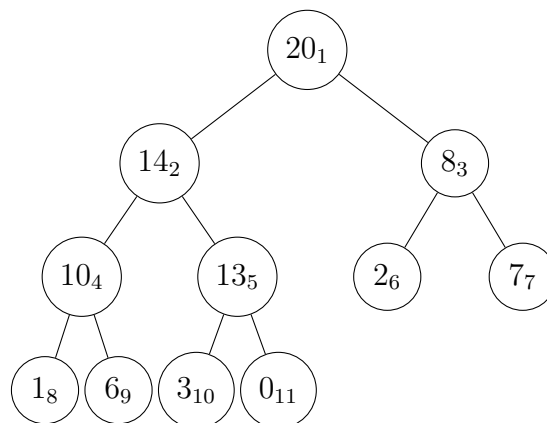


(b) Draw the heap tree after inserting values: 14, 0, 35

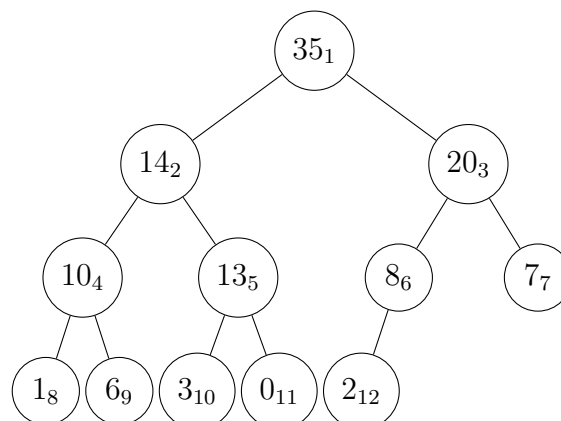
Insert 14:



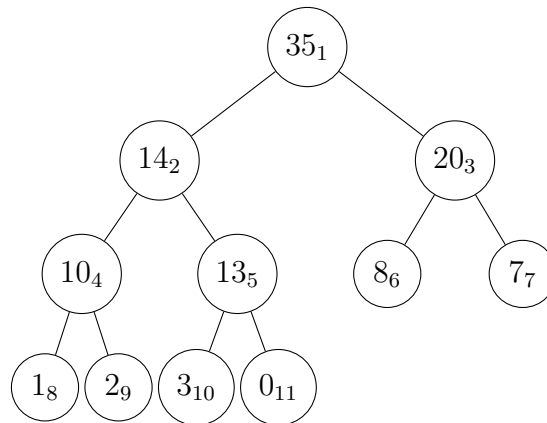
Insert 0:



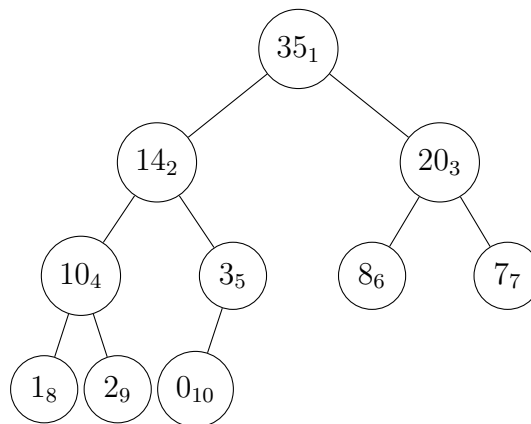
Insert 35:



- (c) Draw the heap tree after deleting: 6, 13, 35
Delete 6:



Delete 13:



Delete 35:

