

Homework Assignment #1

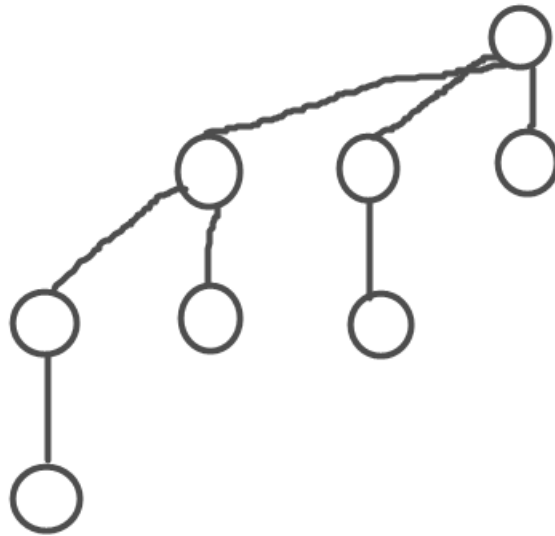
Due: January 16, 2020, by 5:30 pm

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Question 2

$56_{10} = 111000_2$, so the binomial heap has 3 binomial trees, B_5 , B_4 , B_3 .

The smallest tree is B_3 . It looks like this:



The degree of the root is 7

After extract min, there is 55 nodes left, $55_{10} = 110111_2$, so the binomial heap has 5 binomial trees B_5 , B_4 , B_2 , B_1 , B_0 . The smallest tree is B_0 , it has only one node, so the degree of the root is 0