

Peer-to-peer networks – (due till May 20, 2009)

Exercise 10.1: Bubblestorm

- a) A node with high bandwidth has to store
 - 0 more data
 - O less data
 - O on average as much as the other nodes

Explain how you come to this conclusion.

- b) What is a bubble?
- c) How does the creation of the network differ from the creation of a bubble?
- d) What is the split factor in Bubblestorm?
- e) Is it possible that a nodes gets multiple copies and if yes, when does that happen resp. why is it impossible?
- f) The authors of Bubblestorm claim that leave nodes of a bubble are only located on level n or (n-1). So the difference of the levels of leave nodes never deviates by more than one. Explain why this holds true.