Exercise No. 11 Peer-To-Peer Networks Summer 2010

Exercise 1 Push & Pull & Push&Pull



Starting with the middle graph, transfer it into the left and right graphs by using the

- 1. Push,
- 2. Pull,
- 3. Push&Pull

operation.





- 1. Transfer the left graph into the right graph by using the 1-Flipper operation.
- 2. How many different graphs can be reached by the 1-Flipper operation starting from the left graph?
- 3. Find an upper and lower bound for the number of 1-Flipper operations needed to transform one of theses graphs into any another one.