# Homework lecture 2
# Leader Election

Jaap-Henk Hoepman
jhh@cs.ru.nl

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**Question 1**: In LeLann's leader election discussed in class, show that when communication links are *not* FIFO and the system is asynchronous, a leader is not necessarily elected.

**Question 2**: In Peterson's leader election protocol, what happens to the other nodes when a node becomes a leader?

What could you do about that?

**Question 3**: Design a leader election protocol that works on general undirected graphs, provided they are connected.

What is the message complexity?