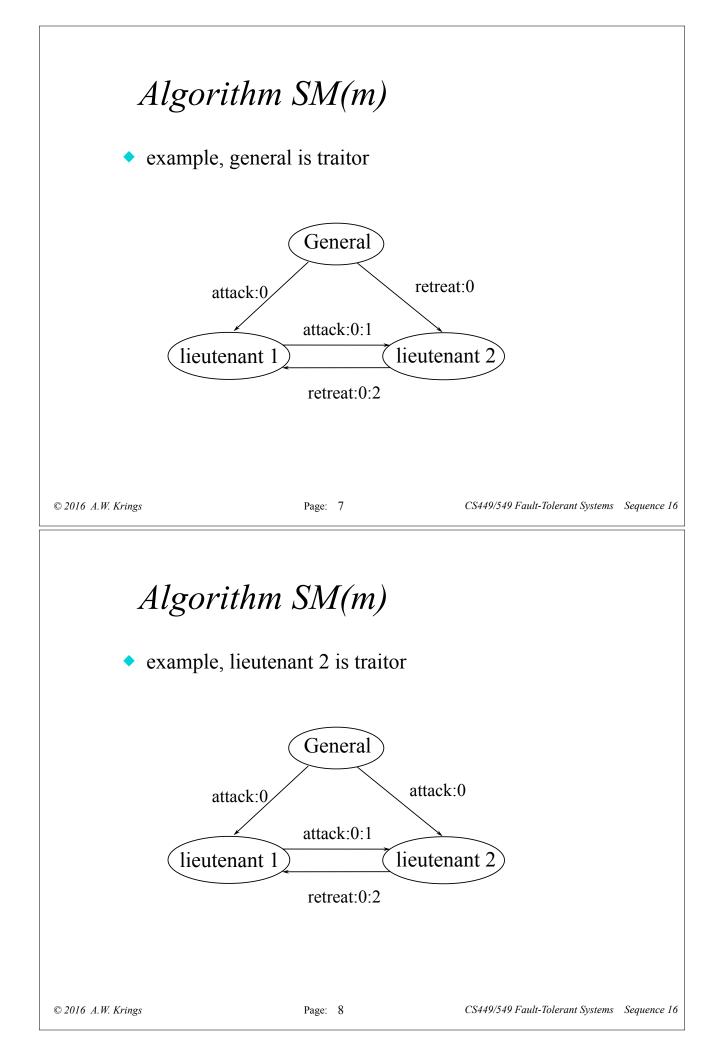


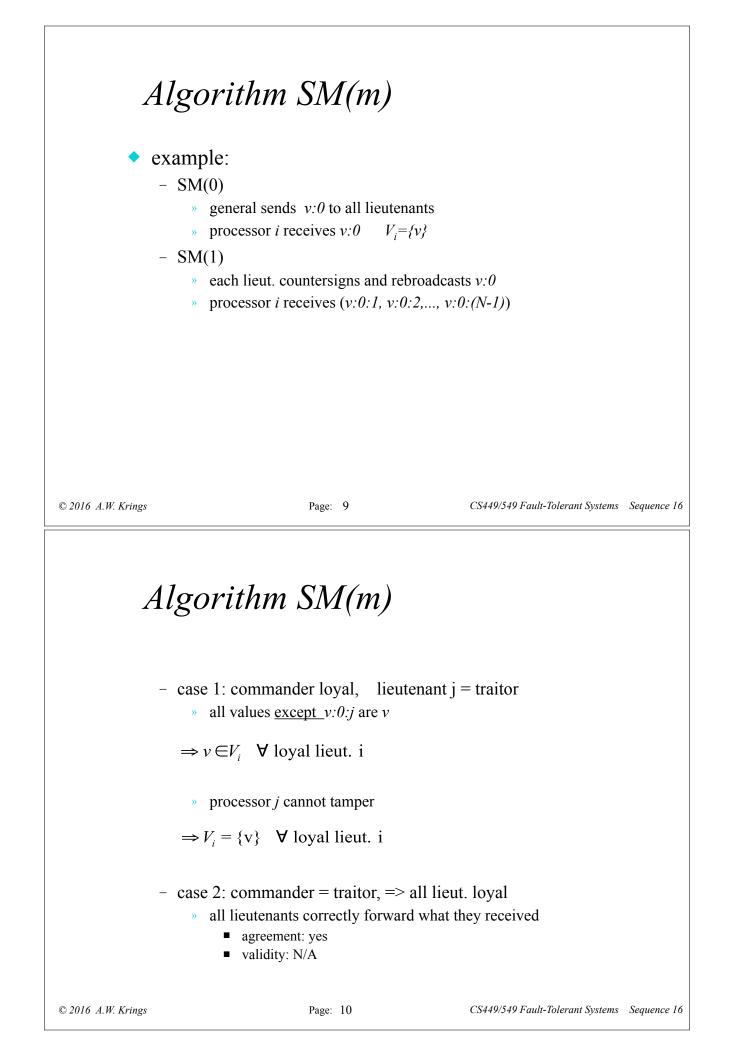
## Algorithm SM(m)

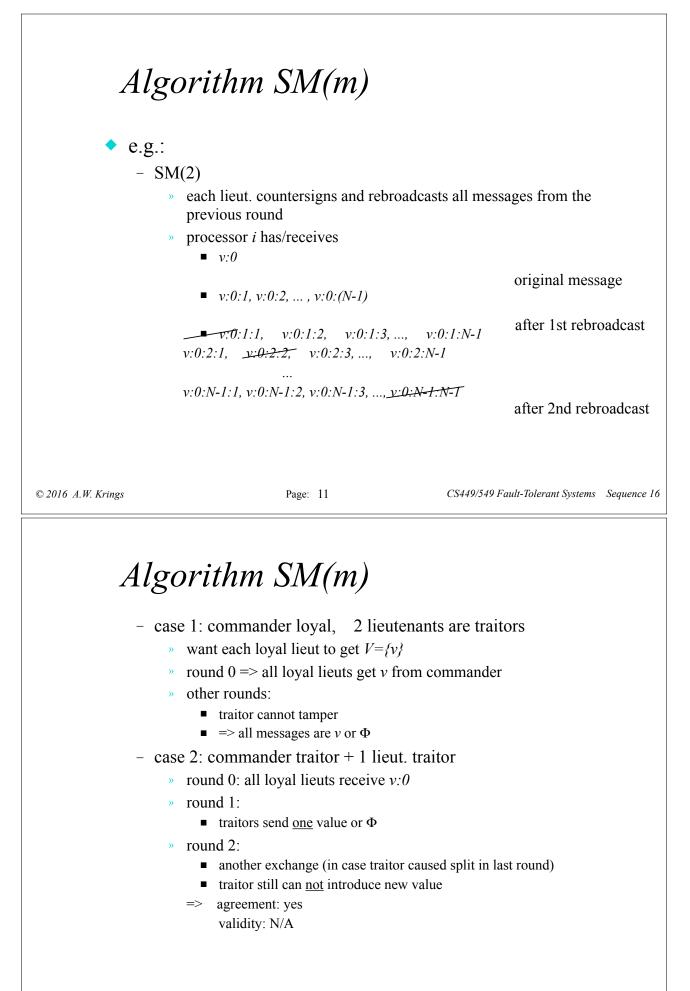
The SM(m) algorithm for signed messages works for

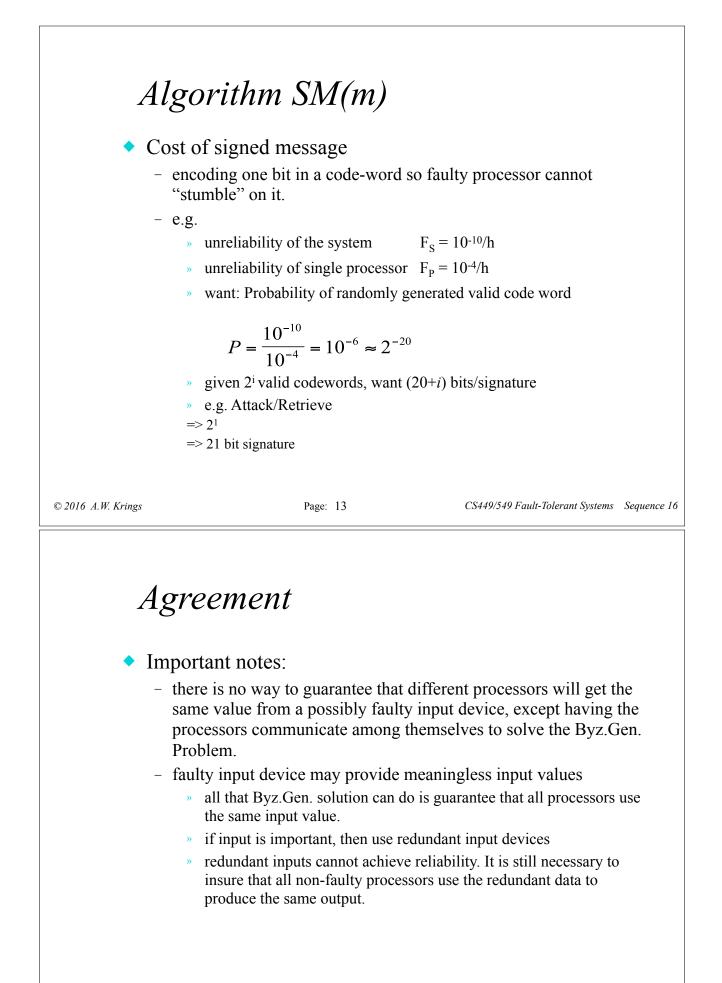
## $N \ge m + 2$

- i.e. want non faulty commander and at least one non faulty lieutenant
- How does one know when one does not receive any more messages?
  - by *missing message assumption* A3, we can tell when all messages have been received
  - this can be implemented by using synchronized rounds
- Now traitor can be detected!
  - e.g. 2 correctly signed values => general is traitor









## Agreement

- Implementing BGP is no problem
- The problem is implementing a message passing system that yields respective assumptions, i.e.:
- A1: every message that is sent is delivered correctly
- A2: the receiver of a message knows who send it
- A3: the absence of a message can be detected
- A4: a loyal general's signature cannot be forged, and any alteration of the contents of his signed messages can be detected. Anyone can verify the authenticity of a general's signature

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