

The Ring Election Protocol

- Any process p_i that discovers the old coordinator has failed initiates an “Election” message that contains p_i ’s own id:attr. This is the *initiator* of the election.
- When a process p_i receives an “Election” message, it compares the attr in the message with its own attr.
 - If the arrived attr is greater, p_i forwards the message.
 - If the arrived attr is smaller and p_i has not forwarded an election message earlier, it overwrites the message with its own id:attr, and forwards it.
 - If the arrived id:attr matches that of p_i , then p_i ’s attr must be the greatest (why?), and it becomes the new coordinator. This process then sends an “Elected” message to its neighbor with its id, announcing the election result.