



FIGURE 12.11 A sequential execution of a BITONIC [4] counting network. Each vertical line represents a balancer, and each balancer's two input and output wires are the horizontal lines it connects to at the dots. In this sequential execution, tokens pass through the network, one completely after the other in the order specified by the numbers on the tokens. We track every token as it passes through the balancers on the way to an output wire. For example, token number 3 enters on wire 2, goes down to wire 3, and ends up on wire 2. Note how the step property is maintained in every balancer, and also in the network as a whole.