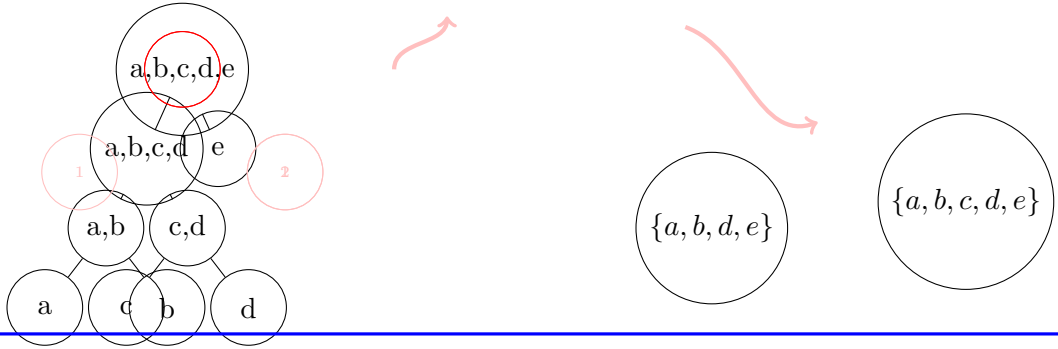

Figure 1: Visualization of the $\sqrt{n}$-decomposition of the blue group from Figure **??**. The processes a, b, c, d, e in the group are logically decomposed into a binary tree. The pink arrows visualize the three-round process of relaying operative counts of the two children of the root to the root itself. First, the counts are relayed to all processes in the group (arrow #1), then the processes send a confirmation if they received the counts (arrow #2), finally, all in the group transmit the received counts to the higher layer – the root in this case (arrow #3). Some processes can be faulty (process c does not communicate, only $\{a, b, d, e\}$) and their values are not guaranteed to be accumulated accurately.