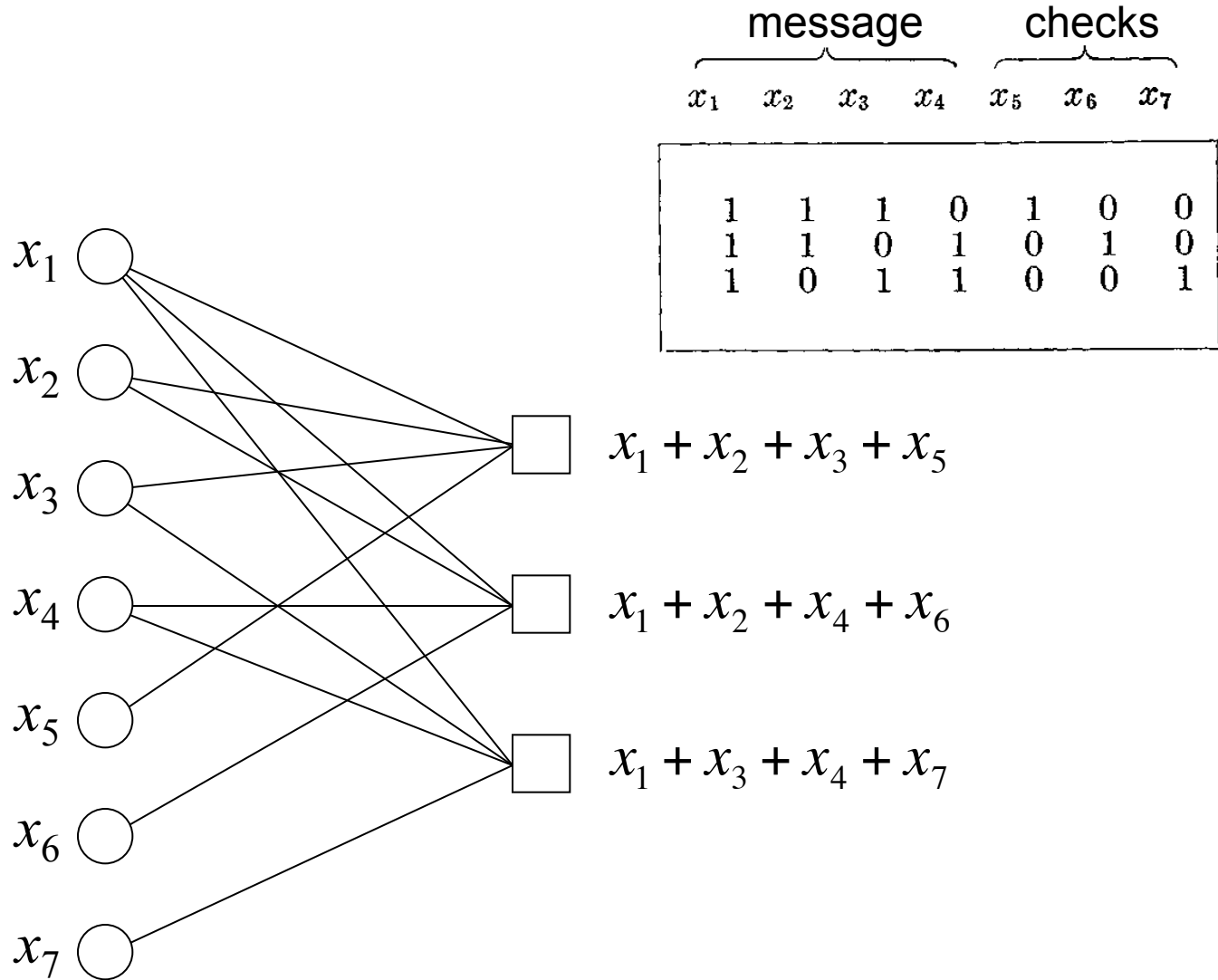
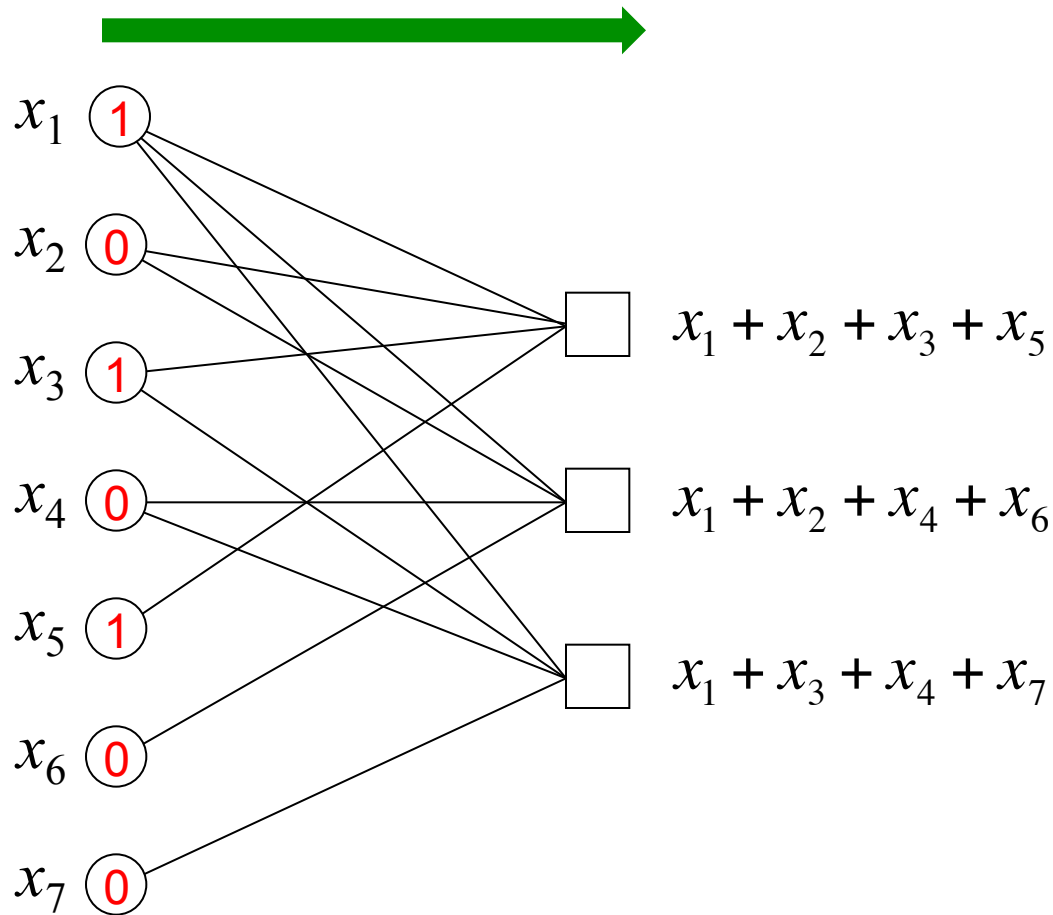


Graph representation of parity check matrix

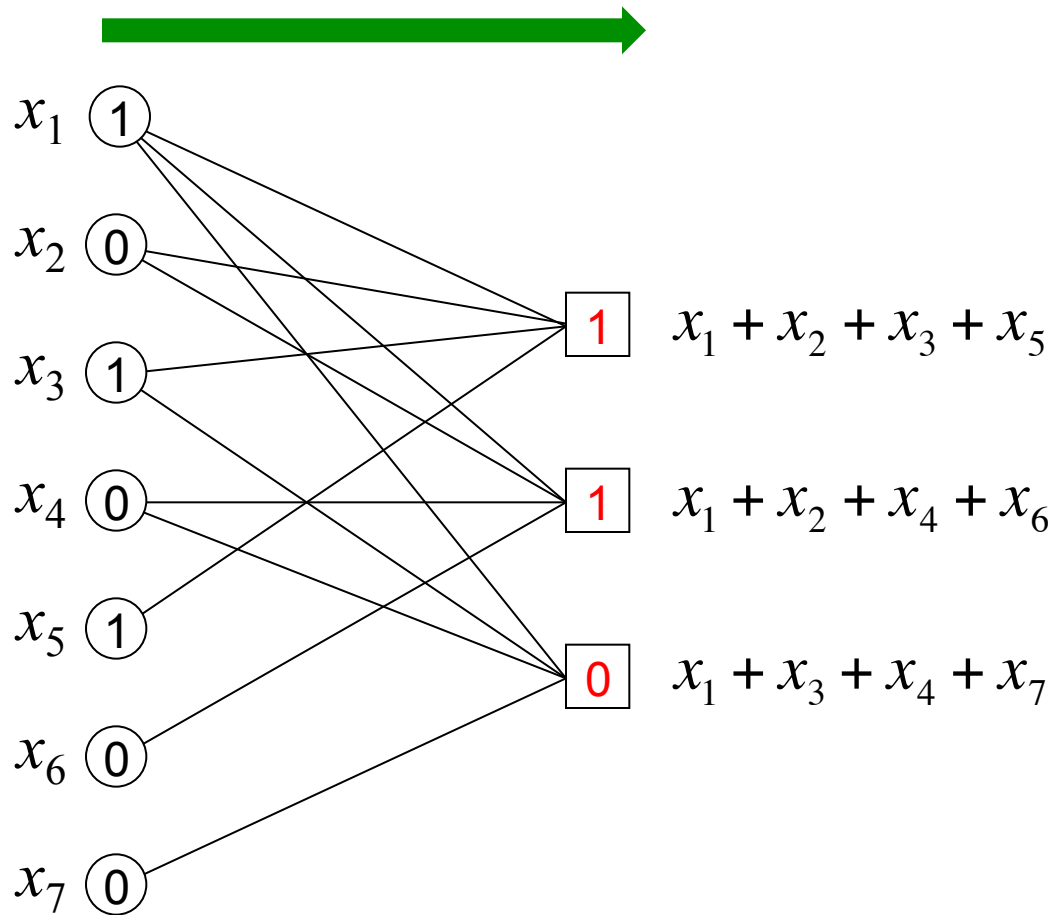


Iterative decoding



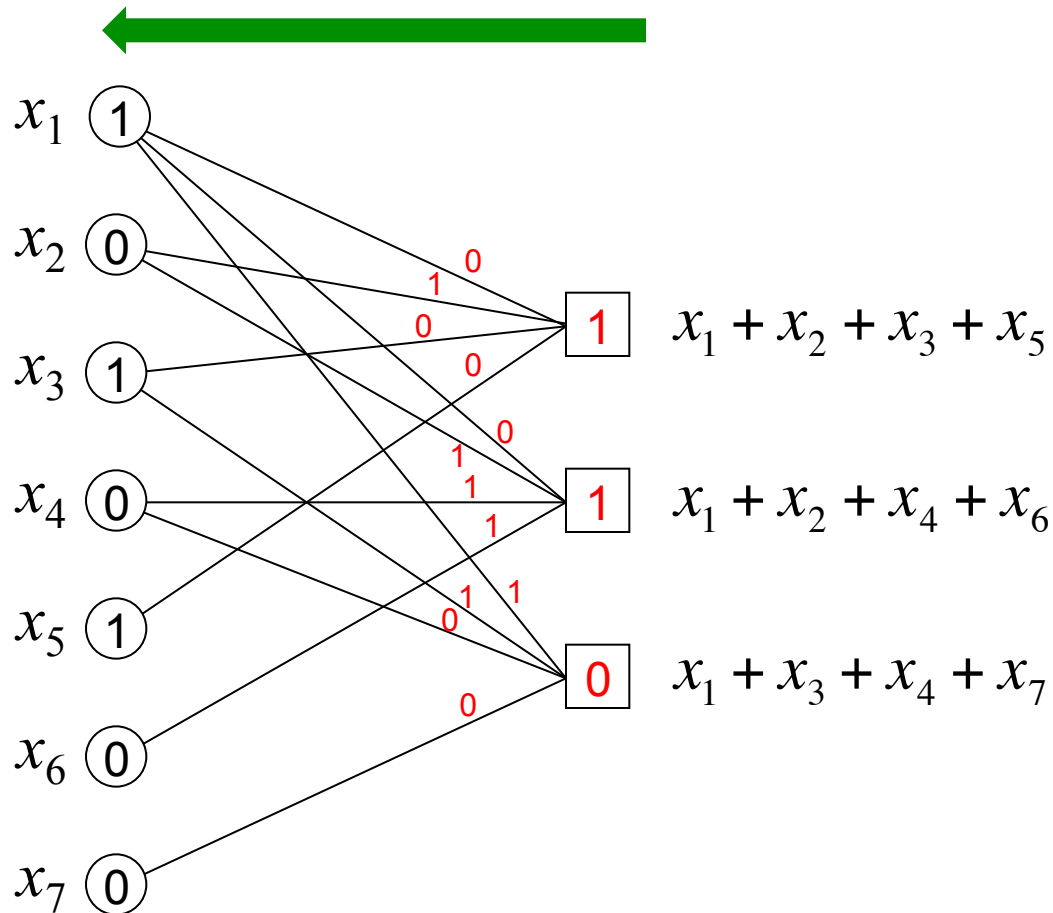
Received word

Phase 1: left to right

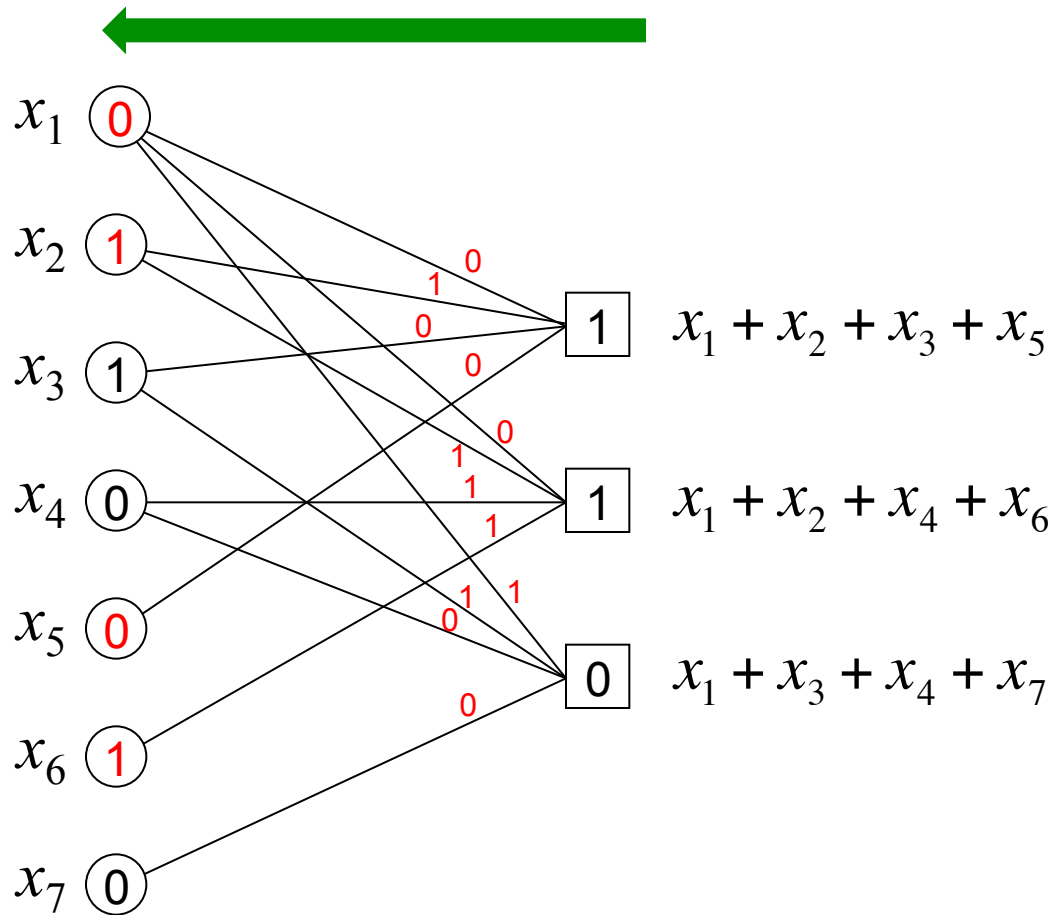


Send symbols, compute parity

Phase 2: right to left

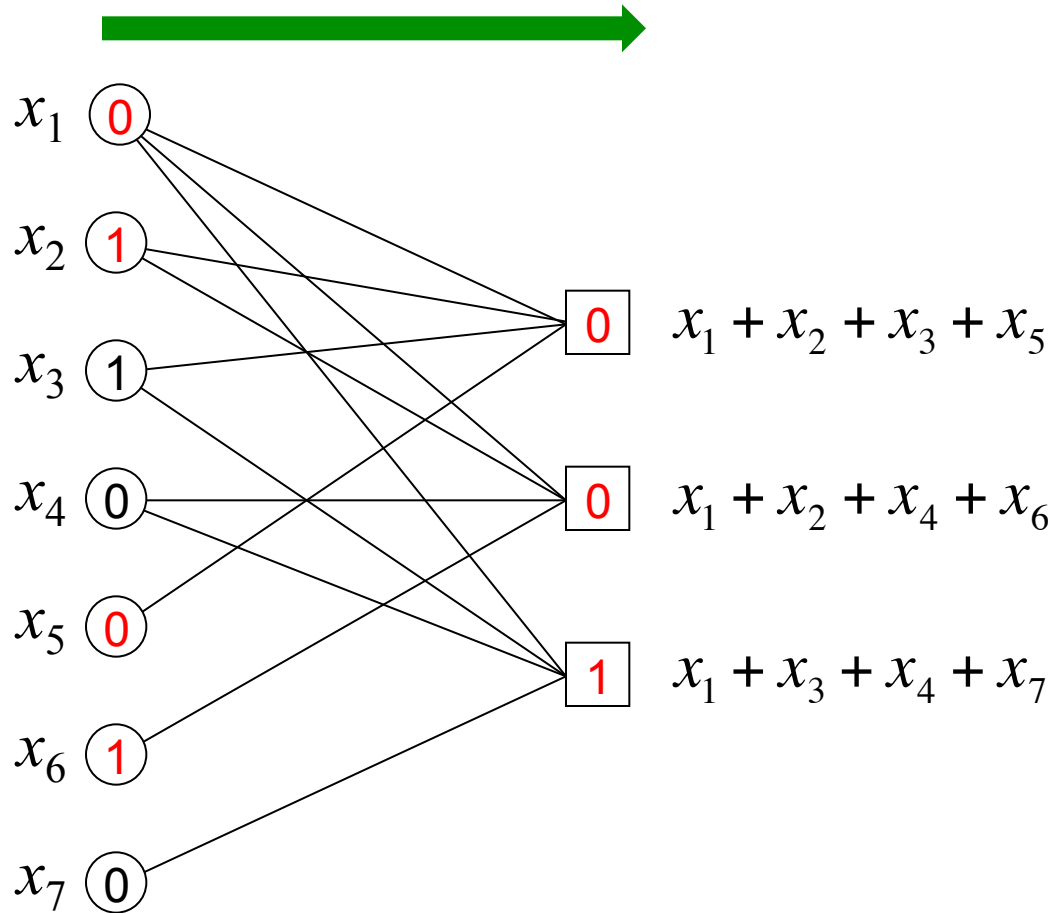


Send back symbol that would satisfy parity



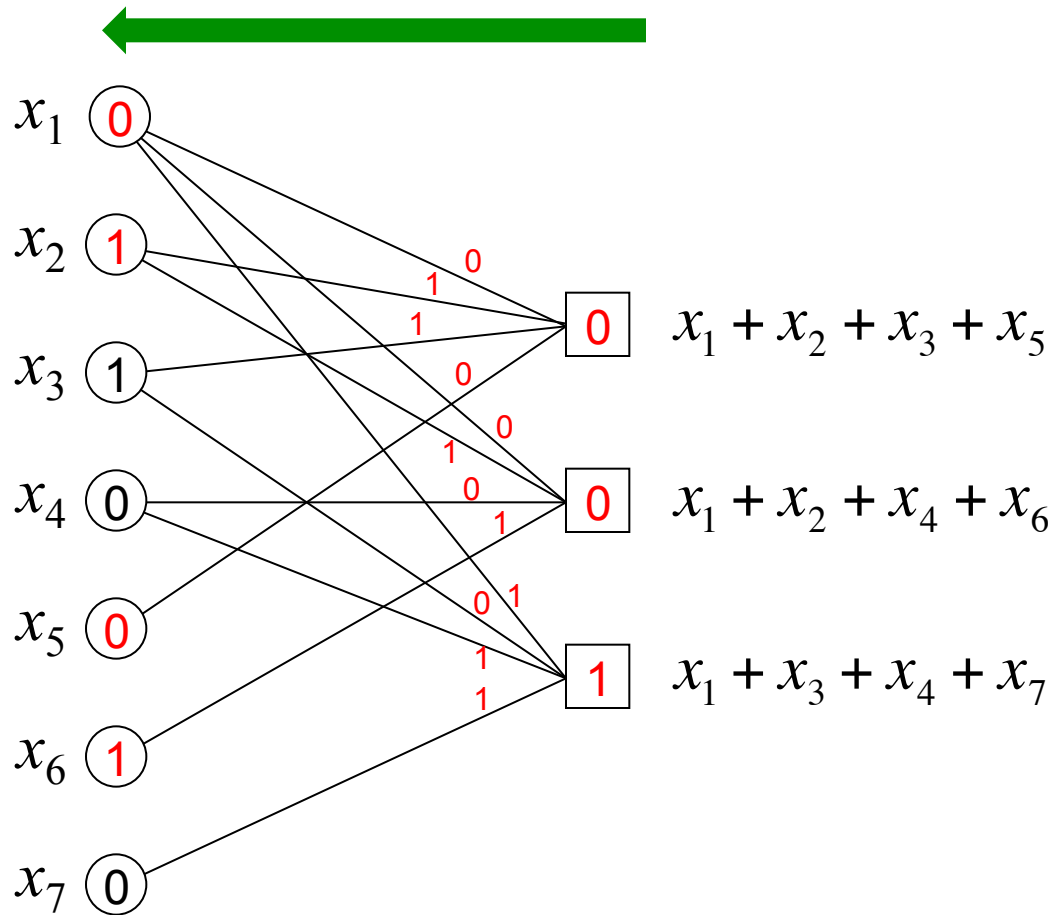
Take majority vote, accept if there is a winner

Phase 1: left to right

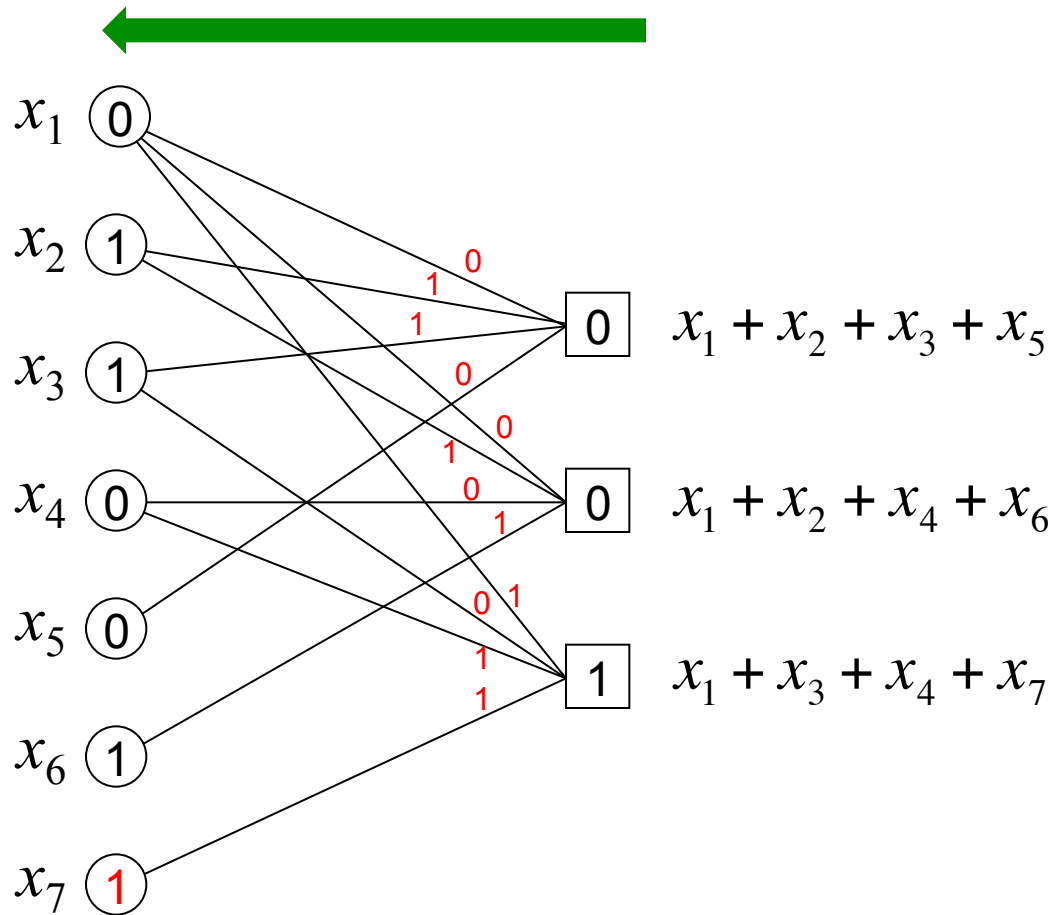


Send symbols, compute parity

Phase 2: right to left

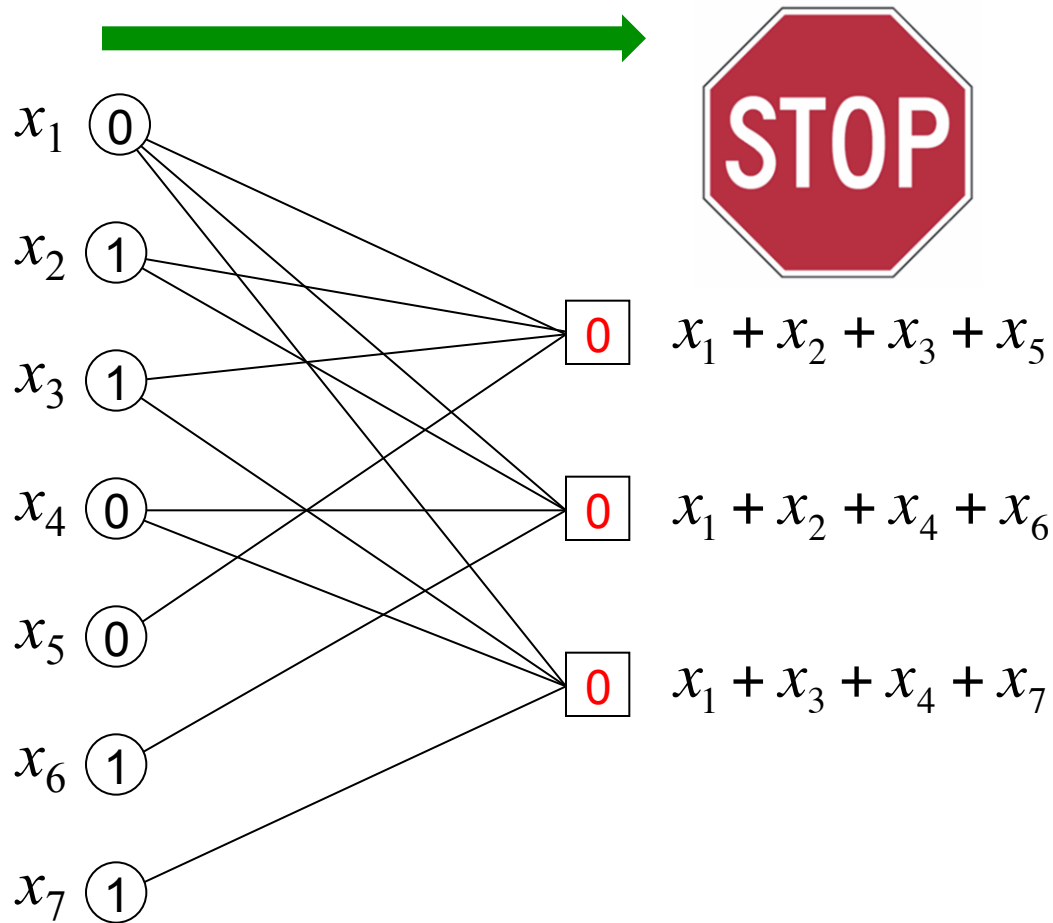


Send back symbol that would satisfy parity

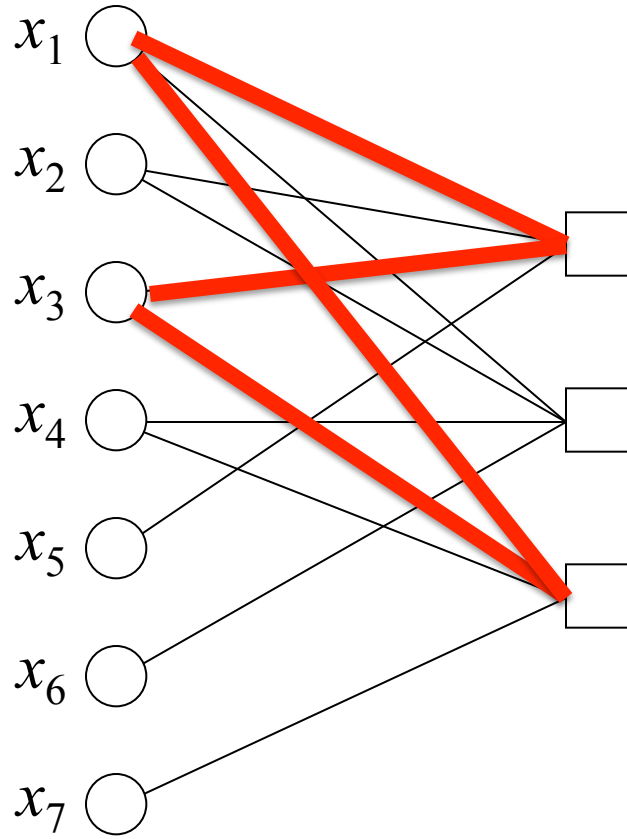


Take majority vote, accept if there is a winner

Phase 1: left to right



Stop when all checks satisfied



Iteration 0

0 1 1 1 0 1 0

0

1

0

0 1 1 1 0 0 0

Iteration 1

0 1 1 1 0 0 0

0

0

0

ans =

0 1 1 1 0 0 0