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```
public static void broadcast(Node node, boolean verbose){
    int nNodes = node.getNumberOfAllNodes();
    int myIdx = node.getMyId();

    int loopOffset;
    if (node.getMyData() != null){
        loopOffset = 0;
    }
    else{
        loopOffset = 1;
        node.receiveAndSet(verbose);
    }

    if(myIdx < nNodes / 2){
        for (int i = Utils.binlog(myIdx) + loopOffset; i < Utils.binlog(nNodes); i++) {
            node.send(myIdx + (1 << i), node.getMyData());
        }
    }
}
```

