

Extra Difficulty Assignment: 2-SAT

It is well-known that k -SAT is \mathcal{NP} -complete for any $k \geq 3$. It is also well-known that 2-SAT is \mathcal{P} -TIME. But is it \mathcal{NC} ?

1. Give a definition of 2-SAT. (We allow clauses of length 1.)
2. Prove that 2-SAT is \mathcal{P} -TIME.

I actually believe 2-SAT is \mathcal{NC} , but I don't expect you to prove it.