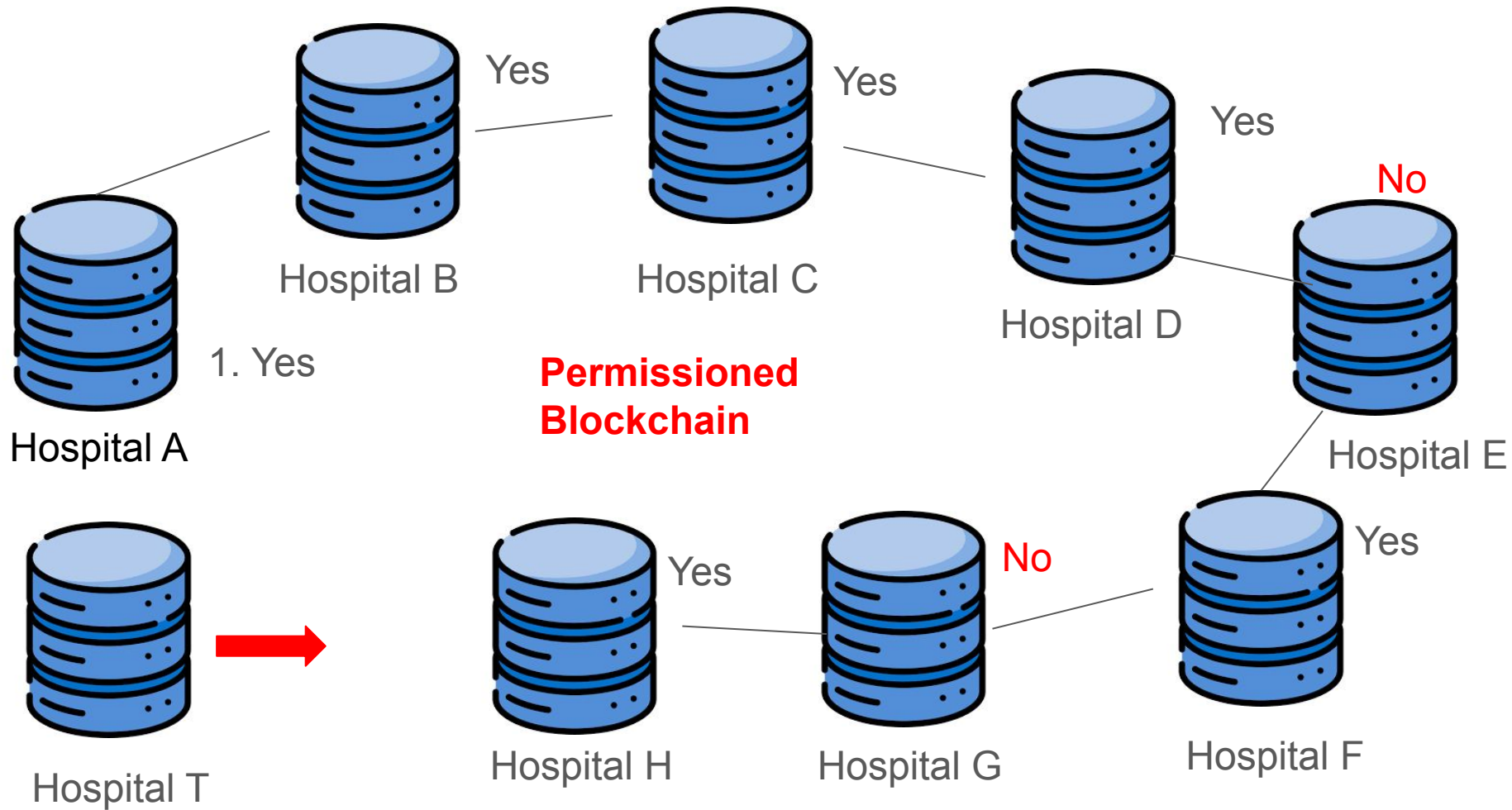


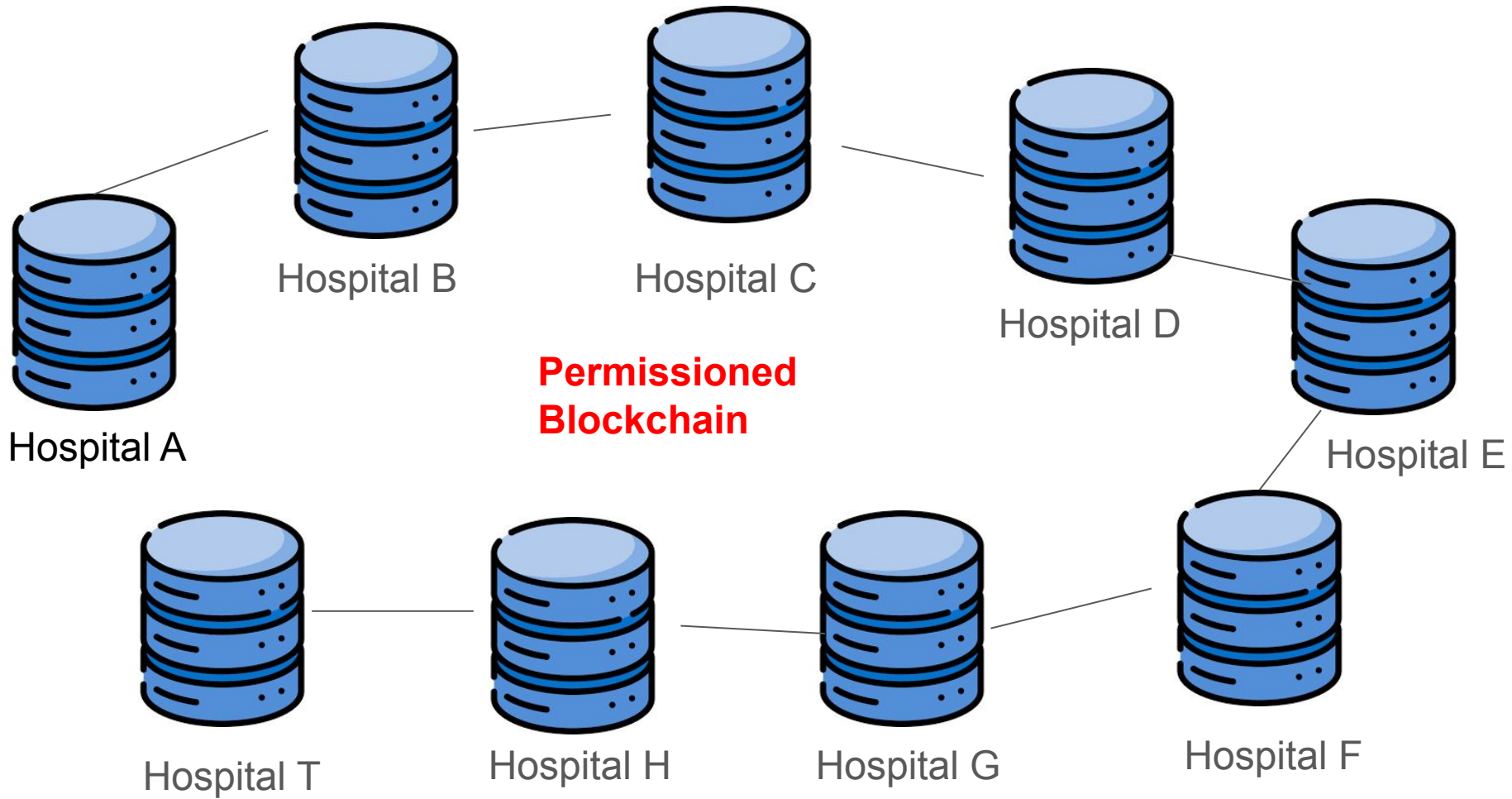
CSC 116 Different Blockchains

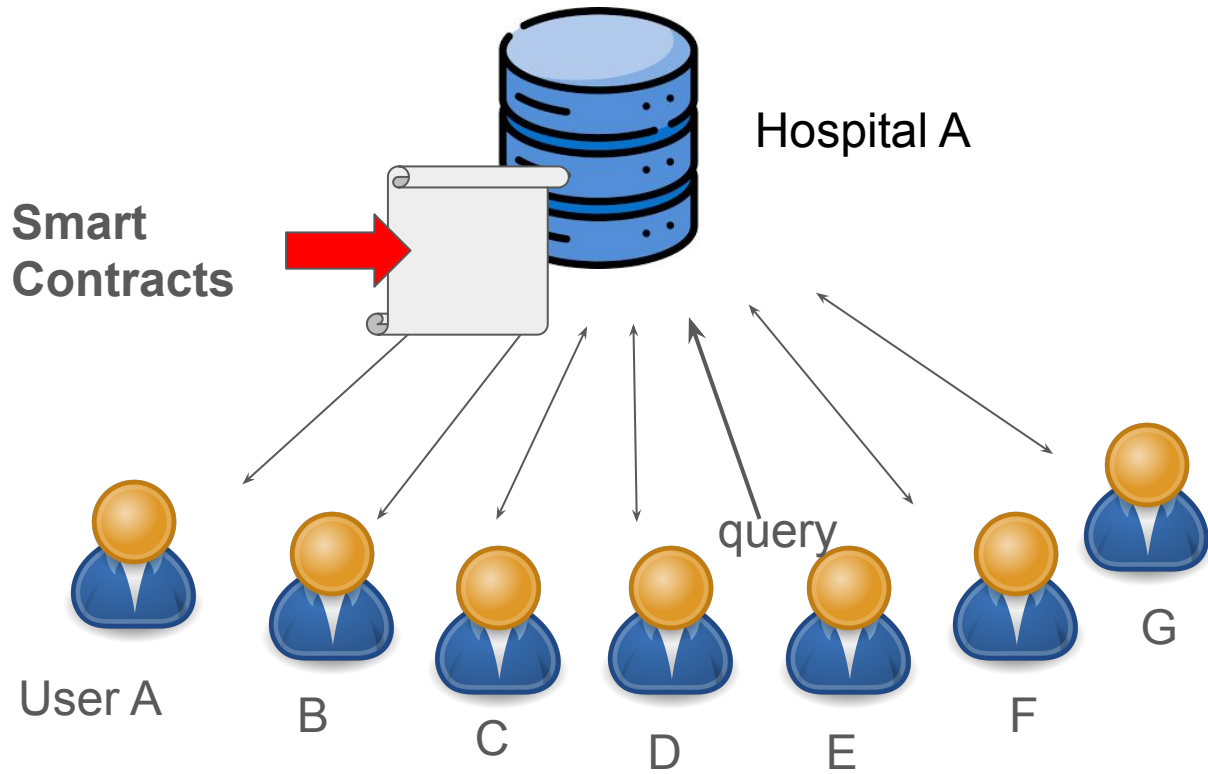
BFT > Private / Permissioned Blockchain

PoW > Public Blockchain, e.g., Bitcoins.

Which one is more secure Between
Permissioned Blockchain and Public
Blockchain?



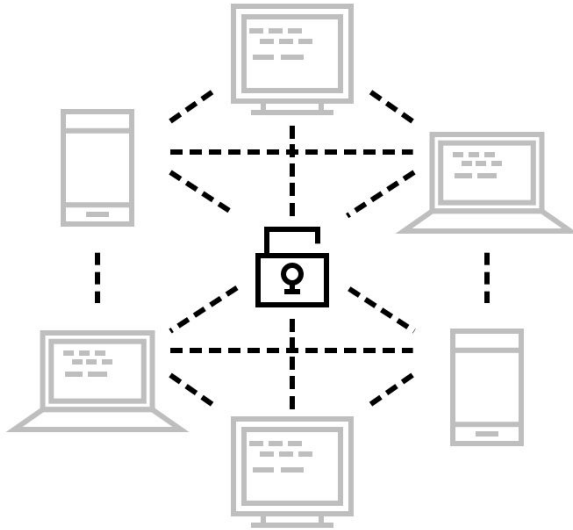




Different users will have different access control

Private Blockchain

Public

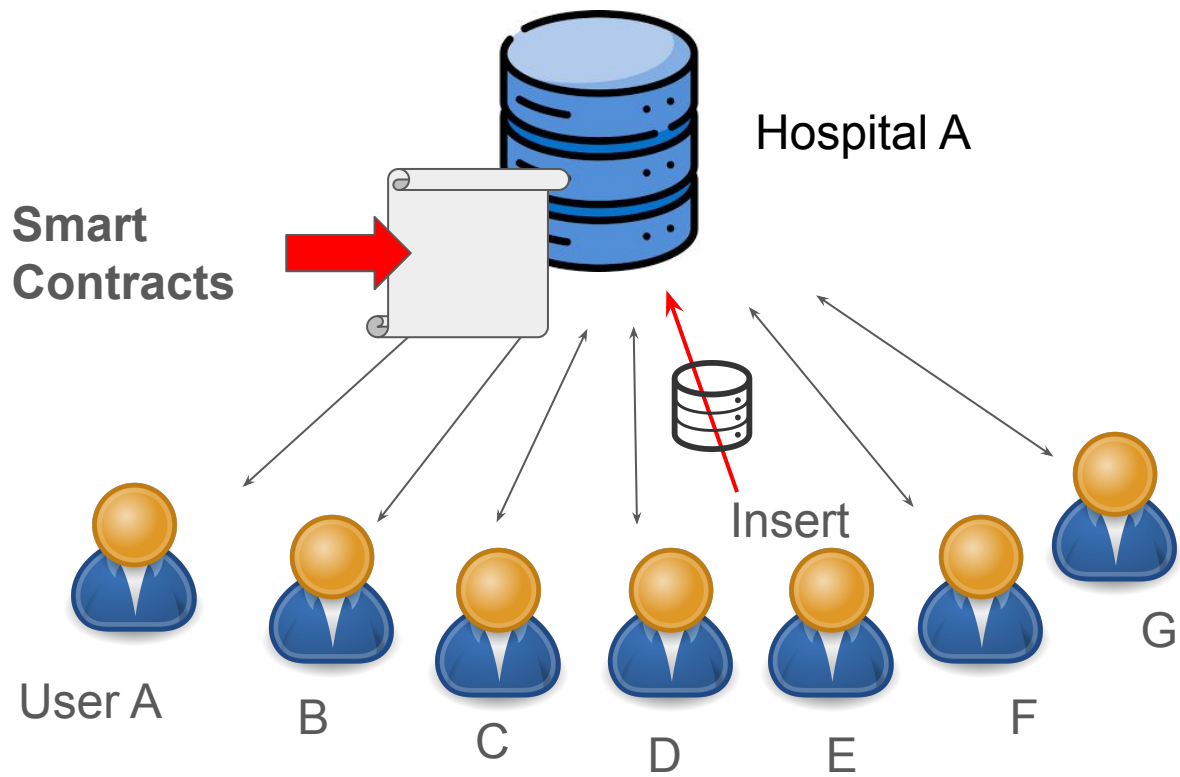


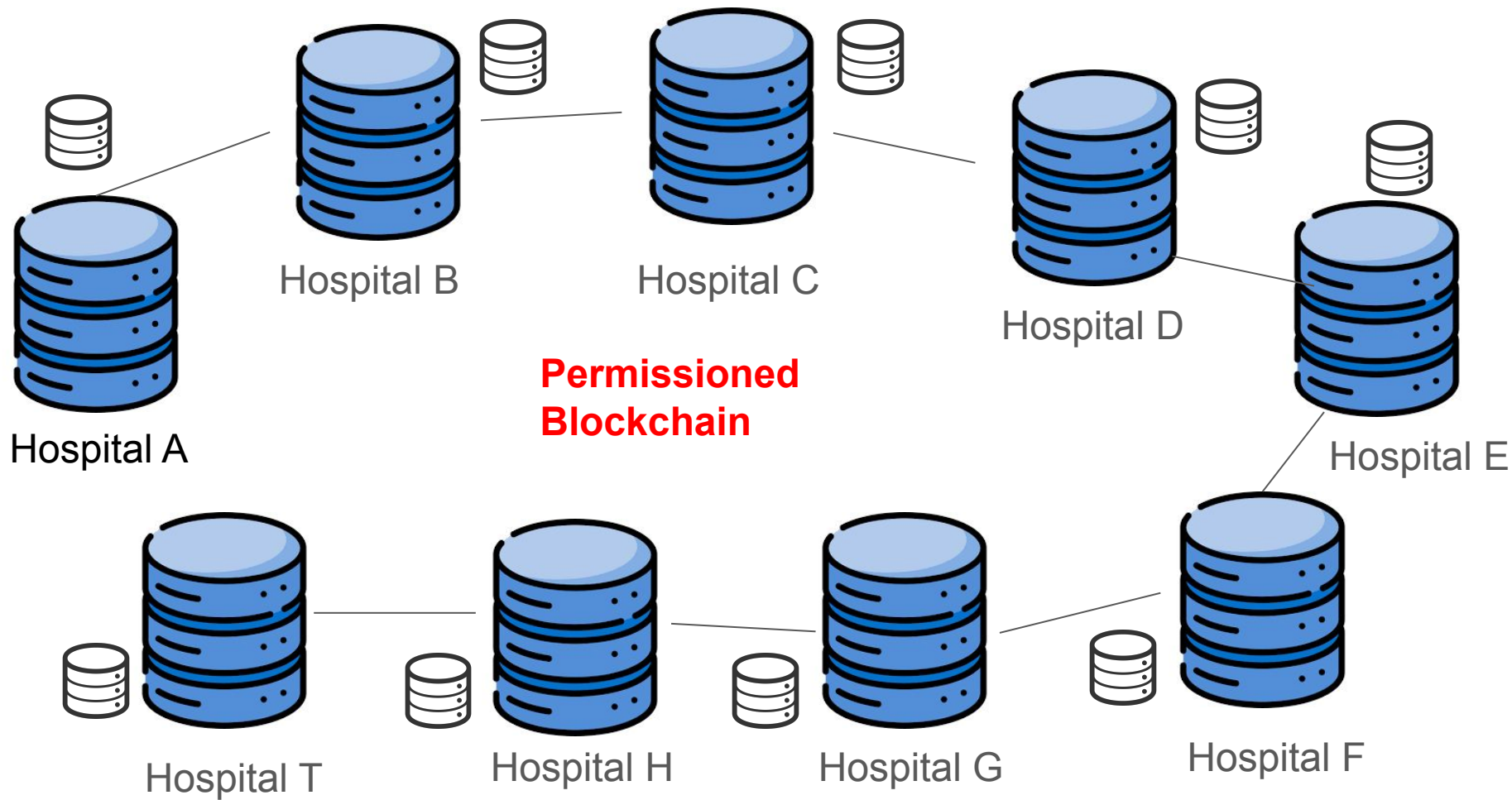
Private

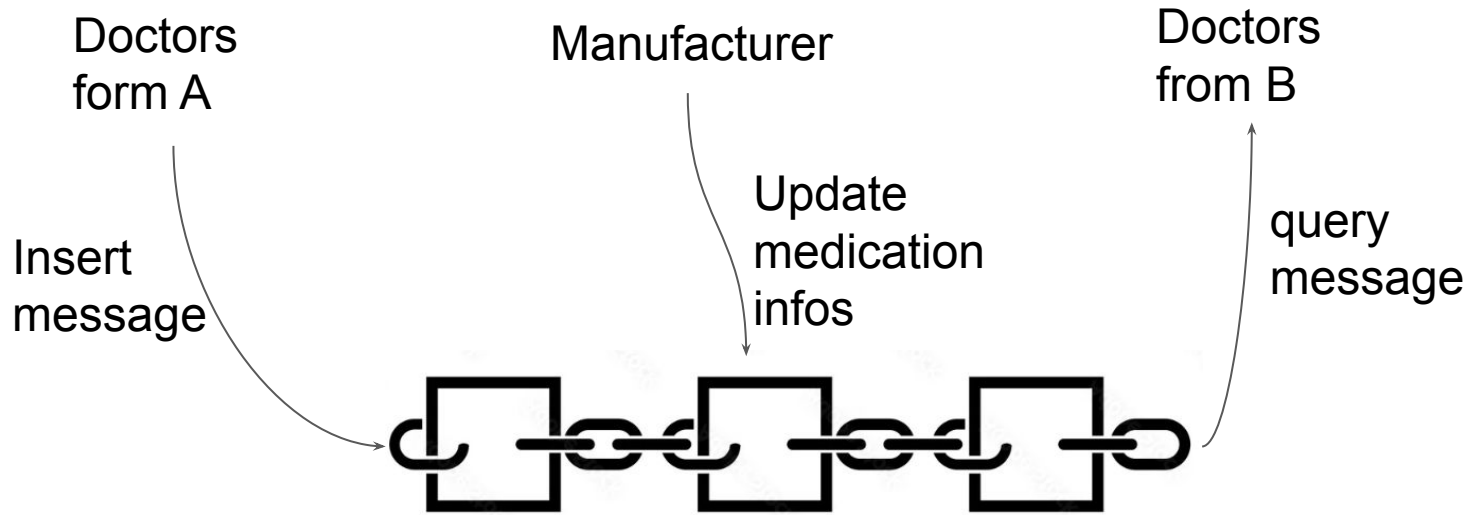


Which one is more secure between Permissioned Blockchain and Public Blockchain?

Aspect	Permissioned Blockchain	Public Blockchain
Participation	Restricted to authorized nodes	Open to anyone
Consensus Mechanism	Efficient (e.g., BFT, PBFT)	Resource-intensive (e.g., PoW, PoS)
Decentralization	Limited (fewer nodes, controlled environment)	High (thousands of nodes, fully decentralized)
Transparency	Limited (only authorized participants can view data)	Fully transparent (all transactions public)
Immutability	High (but depends on participants' honesty)	Extremely high (cryptographically secured)
Attack Resistance	Vulnerable to insider attacks	Resistant to censorship and external attacks







Blockchain share information with everyone.
Every authorized user with proper access
control can update, insert, and search

Thanks