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很多朋友希望我把Lamport老爷子的邮件回复贴出来，经过作者同意后：图灵奖得住，分布式系统科学家Lamport老爷子对分布式系统和并发编程领域里的consistency, consensus, coherence这三个词的理解。

●●●●○ 中国移动 4G

09:35



Here is my idea of what these terms mean. Others may have different ideas.

Leslie Lamport

consensus: different processes agreeing on something. For example, different processes agreeing that a customer command to withdraw money should be allowed.

consistency: different parts of a system state being in agreement. For example, two different records that contain the amount of money in a customer's account should have the same value.

coherence: the only use of this term I'm familiar with is cache coherence, which is the special case of consistency when the parts of the system state in question are the values appearing in different caches for the same

memory registers.

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