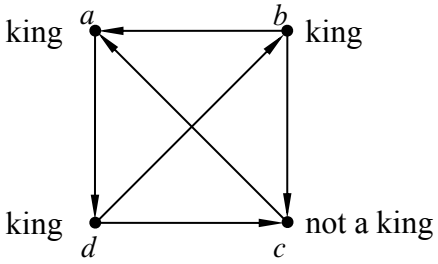

Figure 1 A 4-chicken tournament in which chickens a, b, and d are kings.

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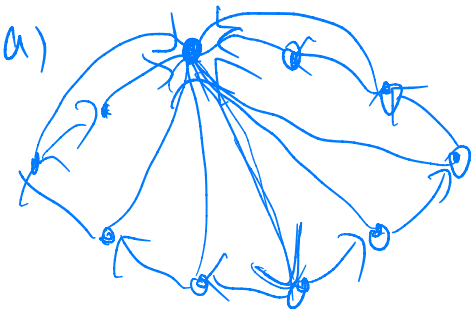
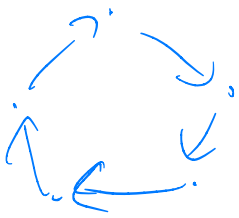
The King Chicken Theorem means that if the player with the most victories is defeated by another player x, then at least he/she defeats some third player that defeats x. In this sense, the player with the most victories has some sort of bragging rights over every other player. Unfortunately, as Figure 1 illustrates, there can be many other players with such bragging rights, even some with fewer victories.

(a)



(b)



( )

u with largest out degree

$\forall v \in E(G)$

case1: $u \to v$ done

case2: $v \to u$

$W = \{w_1, \ldots, w_i \mid u \to w_j\}$

if all $w_j \in W$ $v \to w_j$

contradict

$\exists w_j \to v$

QED