

## Cheating

(rev. 10/24/22)

If the system seeks a majority, using runoff elections, another problem is “cheating”:

*Example 2 (17 voters):*

(8 voters) Donald > Micky > Goofy;

(5 v.) Micky > Donald > Goofy;

(4 v.) Goofy > Micky > Donald.

“Honest” Election (Everybody votes their first preference.):

(round 1) Donald – 8, Micky – 5, Goofy – 4.

(r. 2) Micky – 9, Donald – 8. Micky wins.

Ranked Choice – Same Result, without separate runoff.

2 of Donald’s supporters “cheat” by voting for Goofy to eliminate Micky:

(r. 1) Donald – 6; Goofy – 6; Micky – 5.

(r. 2) Donald – 13, Goofy 4. Donald wins, though a majority preferred Micky.

Approval Voting (Assuming all vote for their 1<sup>st</sup> and 2<sup>nd</sup> choice.):

Micky – 8+5+4 = 17

Donald – 8+5 = 13

Goofy – 4

Micky wins.