There are T votes for Trump and B votes for biden.

There is e_t probability that a Trump vote will be wrongly counted as a Biden vote. There is e_b probability that a Biden vote will be wrongly counted as a Trump vote.

let the expected number of Trump votes be:

$$\tau = T(1 - k_t) + Bk_b \tag{0.1}$$

$$\beta = B(1 - k_b) + Tk_t \tag{0.2}$$

1 PDF of trump votes

$$p(\tau = 0|T, V) = k_t^T (1 - k_b)^B \tag{1.1}$$

$$p(\tau = 1|T, V) = k_t^{T-1}(1 - k_t)(1 - k_b)^B + k_t^T k_t (1 - k_b)^{B-1} \tag{1.2}$$

$$p(\tau = 2|T, V) = k_t^{T-2}(1 - k_t)(1 - k_b)^B + k_t^T k_t (1 - k_b)^{B-2} + ?k_t^{T-1} k_t (1 - k_b)^{B-1} \tag{1.3}$$

$$\tag{1.4}$$