File ./elections/ex1/structure.js loaded.

====== Election structure ======

Election type:

Synthetic

Number of contests:

5

e.cids (contest ids):

I C1 C2 C3 F23

Number of paper ballot collections)

3

e.pbcids (paper ballot collection ids (e.g. jurisdictions)):

PBC1 PBC2 PBC3

e.collection\_type (either CVR or noCVR) for each pbcid:

PBC1:CVR

PBC2:CVR

PBC3:CVR

e.rel (valid pbcids for each cid):

I: PBC1 PBC3 PBC2

C1: PBC1

C2: PBC2

C3: PBC3

F23: PBC3 PBC2

e.vvids (valid vote ids for each cid):

I: 0 1

C1: 0 1

C2: 0 1

C3: 0 1

F23: 0 1

e.ivids (invalid vote ids for each cid):

I: Invalid Overvote Undervote

C1: Invalid Overvote Undervote

C2: Invalid Overvote Undervote

C3: Invalid Overvote Undervote

F23: Invalid Overvote Undervote

e.vids (valid or invalid vote ids for each cid):

I: 0 1 Invalid Overvote Undervote

C1: 0 1 Invalid Overvote Undervote

C2: 0 1 Invalid Overvote Undervote

C3: 0 1 Invalid Overvote Undervote

F23: 0 1 Invalid Overvote Undervote

File ./elections/ex1/data.js loaded.

Synthetic vote generation seed: 8

====== Reported election data ======

e.t (total votes for each vid by cid and pbcid):

I.PBC1: 0:4950 1:5050 Invalid:0 Overvote:0 Undervote:0

I.PBC3: 0:4950 1:5050 Invalid:0 Overvote:0 Undervote:0

I.PBC2: 0:4950 1:5050 Invalid:0 Overvote:0 Undervote:0

C1.PBC1: 0:3500 1:6500 Invalid:0 Overvote:0 Undervote:0

C2.PBC2: 0:4000 1:6000 Invalid:0 Overvote:0 Undervote:0

C3.PBC3: 0:4500 1:5500 Invalid:0 Overvote:0 Undervote:0

F23.PBC3: 0:4750 1:5250 Invalid:0 Overvote:0 Undervote:0

F23.PBC2: 0:4750 1:5250 Invalid:0 Overvote:0 Undervote:0

e.totcid (total votes cast for each cid):

I: 30000

C1: 10000

C2: 10000

C3: 10000

F23: 20000

e.totvot (total cast for each vid for each cid):

I: 0:14850 1:15150 Invalid:0 Overvote:0 Undervote:0

C1: 0:3500 1:6500 Invalid:0 Overvote:0 Undervote:0

C2: 0:4000 1:6000 Invalid:0 Overvote:0 Undervote:0

C3: 0:4500 1:5500 Invalid:0 Overvote:0 Undervote:0

F23: 0:9500 1:10500 Invalid:0 Overvote:0 Undervote:0

e.av (first five or so actual votes cast for each cid and pbcid):

I.PBC1:0 0 1 1 0

I.PBC3:0 0 1 1 0

I.PBC2:0 0 1 1 0

C1.PBC1:1 0 1 0 0

C2.PBC2:0 0 1 0 1

C3.PBC3:0 0 1 0 0

F23.PBC3:0 0 1 0 0

F23.PBC2:0 0 1 0 0

e.ro (reported outcome for each cid):

I:1

C1:1

C2:1

C3:1

F23:0

File ./elections/ex1/audit\_parameters.js loaded.

====== Audit parameters ======

e.contest\_status (initial audit status for each contest):

I:Auditing

C1:Auditing

C2:Auditing

C3:Auditing

F23:Auditing

e.risk\_limit (risk limit per contest):

I:0.05

C1:0.05

C2:0.05

C3:0.05

F23:0.1

e.audit\_rate (max number of ballots audited/day per pbcid):

PBC1:20

PBC2:25

PBC3:30

e.n\_trials (number of trials used to estimate risk in compute\_contest\_risk):

100000

e.pseudocount (hyperparameter for prior distribution, e.g. 0.5 for Jeffrey's prior)

0.001

====== Audit ======

audit stage 1

New target sample sizes by paper ballot collection:

PBC1: 20 (+20)

PBC2: 25 (+25)

PBC3: 30 (+30)

Total sample counts by Contest.PaperBallotCollection[reported vote] and actual votes:

I.PBC1[0] 0:11 total:11

I.PBC1[1] 1:9 total:9

I.PBC3[0] 0:14 total:14

I.PBC3[1] 1:16 total:16

I.PBC2[0] 0:13 total:13

I.PBC2[1] 1:12 total:12

C1.PBC1[0] 0:7 total:7

C1.PBC1[1] 1:13 total:13

C2.PBC2[0] 0:8 total:8

C2.PBC2[1] 1:17 total:17

C3.PBC3[0] 0:17 total:17

C3.PBC3[1] 1:13 total:13

F23.PBC3[0] 0:17 total:17

F23.PBC3[1] 1:13 total:13

F23.PBC2[0] 0:16 total:16

F23.PBC2[1] 1:9 total:9

Risk (that reported outcome is wrong) per cid and contest status:

I 0.00264 (limit 0.05) Risk Limit Reached

C1 0.0 (limit 0.05) Risk Limit Reached

C2 0.0 (limit 0.05) Risk Limit Reached

C3 0.00026 (limit 0.05) Risk Limit Reached

F23 0.99862 (limit 0.1) Full Recount Needed

Election status: ['Full Recount Needed', 'Risk Limit Reached']

=============

Audit completed!

All contests have a status in the following list: ['Full Recount Needed', 'Risk Limit Reached']

Number of ballots sampled, by paper ballot collection:

PBC1:20

PBC2:25

PBC3:30

Total number of ballots sampled: 75