Assignment_1

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Introduction

This is an R Markdown document for the data that can be found in the following link. https://projects.fivethirtyeight.com/2020-general-data/presidential_national_toplines_2020.csv This data gives the forecast for the elections conducted in the year 2020.

Data

D <- read.csv('https://projects.fivethirtyeight.com/2020-general-data/presidential_national_toplines_20 print(D)

##		cycle	branch	model	${\tt modeldate}$	${\tt candidate_inc}$	${\tt candidate_chal}$
##	1	2020	${\tt President}$	polls-plus	8/29/2020	Trump	Biden
##	2	2020	${\tt President}$	polls-plus	8/28/2020	Trump	Biden
##	3	2020	${\tt President}$	polls-plus	8/27/2020	Trump	Biden
##	4	2020	${\tt President}$	polls-plus	8/26/2020	Trump	Biden
##	5	2020	${\tt President}$	polls-plus	8/25/2020	Trump	Biden
##	6	2020	${\tt President}$	polls-plus	8/24/2020	Trump	Biden
##	7	2020	${\tt President}$	polls-plus	8/23/2020	Trump	Biden
##	8	2020	${\tt President}$	polls-plus	8/22/2020	Trump	Biden
##	9	2020	${\tt President}$	polls-plus	8/21/2020	Trump	Biden
##	10	2020	${\tt President}$	polls-plus	8/20/2020	Trump	Biden
##	11	2020	${\tt President}$	polls-plus	8/19/2020	Trump	Biden
##	12	2020	${\tt President}$	polls-plus	8/18/2020	Trump	Biden
##	13	2020	${\tt President}$	polls-plus	8/17/2020	Trump	Biden
##	14	2020	${\tt President}$	polls-plus	8/16/2020	Trump	Biden
##	15	2020	${\tt President}$	polls-plus	8/15/2020	Trump	Biden
##	16	2020	${\tt President}$	polls-plus	8/14/2020	Trump	Biden
##	17	2020	${\tt President}$	polls-plus	8/13/2020	Trump	Biden
##	18	2020	${\tt President}$	polls-plus	8/12/2020	Trump	Biden
##	19	2020	${\tt President}$	polls-plus	8/11/2020	Trump	Biden
##	20	2020	${\tt President}$	polls-plus	8/10/2020	Trump	Biden
##	21			polls-plus		Trump	Biden
##	22	2020	President	polls-plus	8/8/2020	Trump	Biden
##	23			polls-plus	8/7/2020	Trump	Biden
##	24	2020	President	polls-plus	8/6/2020	Trump	Biden
##	25	2020	President	polls-plus	8/5/2020	Trump	Biden
##	26	2020	President	polls-plus	8/4/2020	Trump	Biden
##	27	2020	President	polls-plus	8/3/2020	Trump	Biden
##	28			polls-plus	8/2/2020	Trump	Biden
##	29	2020	President	polls-plus	8/1/2020	Trump	Biden

##	30			${\tt polls-plus}$		Trump	Biden
	31			polls-plus		Trump	Biden
##	32			polls-plus		Trump	Biden
##	33			polls-plus		Trump	Biden
##	34			polls-plus		Trump	Biden
##	35			polls-plus		Trump	Biden
##	36			polls-plus		Trump	Biden
##	37			polls-plus		Trump	Biden
	38			polls-plus		Trump	Biden
##	39			polls-plus		Trump	Biden
##	40			polls-plus		Trump	Biden
##	41			polls-plus		Trump	Biden
##	42			polls-plus		Trump	Biden
##	43			polls-plus		Trump	Biden
##	44			polls-plus		Trump	Biden
##	45			polls-plus		Trump	Biden
##	46			polls-plus		Trump	Biden
##	47			polls-plus		Trump	Biden
##	48			polls-plus		Trump	Biden
	49			polls-plus		Trump	Biden
##				polls-plus		Trump	Biden
	51			polls-plus	7/10/2020	Trump	Biden
	52			polls-plus	7/9/2020	Trump	Biden
	53			polls-plus	7/8/2020	Trump	Biden
	54			polls-plus	7/7/2020	Trump	Biden
##	55			polls-plus	7/6/2020	Trump	Biden
##	56			polls-plus	7/5/2020	Trump	Biden
##	57			polls-plus	7/4/2020	Trump	Biden
##	58			polls-plus	7/3/2020	Trump	Biden
	59			polls-plus	7/2/2020	Trump	Biden
##				polls-plus	7/1/2020	Trump	Biden
	61			polls-plus		Trump	Biden
	62			polls-plus		Trump	Biden
	63			polls-plus		Trump	Biden
	64			polls-plus		Trump	Biden
	65			polls-plus		Trump	Biden
##				polls-plus		Trump	Biden
##				polls-plus		Trump	Biden
	68			polls-plus		Trump	Biden
	69			polls-plus		Trump	Biden
	70			polls-plus		Trump	Biden
	71			polls-plus		Trump	Biden
	72			polls-plus		Trump	Biden
	73			polls-plus		Trump	Biden
	74			polls-plus		Trump	Biden
##				polls-plus		Trump	Biden
	76			polls-plus		Trump	Biden
	77			polls-plus		Trump	Biden
	78			polls-plus		Trump	Biden
	79			polls-plus		Trump	Biden
	80			polls-plus		Trump	Biden
	81			polls-plus		Trump	Biden
	82			polls-plus		Trump	Biden
##	83	2020	President	polls-plus	6/8/2020	Trump	Biden

##	84	2020	President	polls-pl	us	6/7/202	20	Trump	Biden
##	85	2020	President	polls-pl	us	6/6/202	20	Trump	Biden
##	86	2020	President	polls-pl	us	6/5/202	20	Trump	Biden
##	87	2020	President	polls-pl	us	6/4/202	20	Trump	Biden
##	88	2020	President	polls-pl	us	6/3/202	20	Trump	Biden
##	89	2020	President	polls-pl	us	6/2/202	20	Trump	Biden
##	90	2020	President	polls-pl	us	6/1/202	20	Trump	Biden
##		candi	date_3rd e	cwin_inc	ecw	in_chal	ecwin_3rd	ec_nomajority	popwin_inc
##	1		NA	0.307525	0	.688200	NA	0.004275	0.188325
##	2		NA	0.303500	0	.692525	NA	0.003975	0.186225
##	3		NA	0.299400	0	.696400	NA	0.004200	0.182875
##	4		NA	0.300550	0	.695550	NA	0.003900	0.185375
##	5		NA	0.270450	0	.725875	NA	0.003675	0.162850
##	6		NA	0.269575	0	.726975	NA	0.003450	0.165475
##	7		NA	0.267300	0	.729625	NA	0.003075	0.166625
##	8		NA	0.271000	0	.725500	NA	0.003500	0.166700
##	9		NA	0.267575	0	.728750	NA	0.003675	0.164850
##	10		NA	0.273650	0	.722825	NA	0.003525	0.167700
	11		NA	0.278625		.717275	NA	0.004100	0.173150
	12		NA	0.267750		.729100	NA	0.003150	0.166375
	13		NA	0.272400		.723750	NA	0.003850	0.169750
	14		NA	0.282075		.714500	NA	0.003425	0.175925
##			NA	0.277450		.719150	NA	0.003400	0.172850
	16		NA	0.267475		.729250	NA	0.003275	0.165700
	17		NA	0.275200		.721600	NA	0.003200	0.177575
	18		NA	0.287650		.708750	NA	0.003600	0.183050
##	19		NA	0.286600		.710250	NA	0.003150	0.190525
##			NA	0.283950		.712875	NA	0.003175	0.190750
##			NA	0.287175		.709125	NA	0.003700	0.194675
	22		NA	0.291200		.705500	NA	0.003300	0.196425
	23		NA	0.297150		.699200	NA	0.003650	0.201050
	24		NA NA	0.293200		.703325	NA NA	0.003475	0.199275
##	25 26		NA NA	0.297725		.698925	NA NA	0.003350	0.202450
##			NA NA	0.283250		.716625 .712975	NA NA	0.002975 0.003775	0.184400 0.187500
##	28		NA NA	0.283925		.712425	NA NA	0.003773	0.187975
##			NA NA	0.286075		.710875	NA NA	0.003050	0.188825
##			NA NA	0.286700		.710125	NA NA	0.003030	0.190775
##			NA	0.260900		.735900	NA NA	0.003170	0.168075
	32		NA	0.266675		.729925	NA	0.003400	0.170825
	33		NA	0.260625		.736300	NA	0.003075	0.166600
	34		NA	0.266750		.729775	NA	0.003475	0.173875
##			NA	0.267475		.729375	NA	0.003150	0.178825
	36		NA	0.262025		.735000	NA	0.002975	0.180675
	37		NA	0.270275		.726500	NA	0.003225	0.183275
	38		NA	0.264100		.732575	NA	0.003325	0.181825
##	39		NA	0.252225	0	.745000	NA	0.002775	0.178925
##	40		NA	0.258300		.739150	NA	0.002550	0.185725
##	41		NA	0.249550	0	.747950	NA	0.002500	0.177900
##	42		NA	0.256600	0	.740800	NA	0.002600	0.180875
##	43		NA	0.261350	0	.735600	NA	0.003050	0.181425
##	44		NA	0.262300	0	.734850	NA	0.002850	0.182225
##	45		NA	0.259350		.737950	NA	0.002700	0.180450
##	46		NA	0.239200	0	.758000	NA	0.002800	0.164800

##	47	NA	0.258525	0.738500	NA	0.002975	0.179300
##	48	NA	0.258175	0.738850	NA	0.002975	0.177825
##	49	NA	0.270000	0.726775	NA	0.003225	0.184450
##	50	NA	0.279450	0.717150	NA	0.003400	0.194600
##	51	NA	0.275200	0.721600	NA	0.003200	0.189850
##	52	NA	0.272700	0.724550	NA	0.002750	0.189925
##	53	NA	0.269625	0.727375	NA	0.003000	0.185725
##	54	NA	0.268400	0.728375	NA	0.003225	0.184825
##	55	NA	0.280850	0.715800	NA	0.003350	0.198900
##	56	NA	0.237350	0.759375	NA	0.003275	0.156425
##	57	NA	0.239875	0.756850	NA	0.003275	0.159775
##	58	NA	0.238125	0.758950	NA	0.002925	0.156225
##	59	NA	0.240025	0.756300	NA	0.003675	0.159175
##	60	NA	0.235350	0.761525	NA	0.003125	0.162675
##	61	NA	0.235475	0.761375	NA	0.003150	0.161425
##	62	NA	0.209525	0.787850	NA	0.002625	0.136775
##	63	NA	0.211325	0.785625	NA	0.003050	0.137200
##	64	NA	0.208100	0.788425	NA	0.003475	0.134900
##	65	NA	0.206375	0.790550	NA	0.003075	0.137300
##	66	NA	0.216950	0.779500	NA	0.003550	0.142750
##	67	NA	0.210325	0.786725	NA	0.002950	0.139475
##	68	NA	0.217100	0.780075	NA	0.002825	0.145800
##	69	NA	0.215400	0.781600	NA	0.003000	0.142300
##	70	NA	0.219500	0.777475	NA	0.003025	0.147625
##	71	NA	0.222000	0.775150	NA	0.002850	0.148500
##	72	NA	0.225175	0.771925	NA	0.002900	0.151700
##	73	NA	0.237500	0.759450	NA	0.003050	0.160200
##	74	NA	0.235175	0.761575	NA	0.003250	0.160625
##	75	NA	0.239600	0.756750	NA	0.003650	0.163200
##	76	NA	0.247800	0.749025	NA	0.003175	0.164850
##	77	NA	0.234775	0.762550	NA	0.002675	0.153375
##	78	NA	0.237150	0.759350	NA	0.003500	0.158700
	79	NA	0.242350	0.754300	NA	0.003350	0.158900
	80	NA	0.245325	0.751250	NA	0.003425	0.161850
	81	NA	0.283950		NA	0.004225	0.181900
##	82	NA	0.288525		NA	0.004275	0.188000
##		NA	0.303425		NA	0.004050	0.199800
##		NA	0.302275		NA	0.004225	0.199750
##		NA	0.305250		NA	0.003900	0.201325
	86	NA	0.307750		NA	0.004525	0.205150
	87	NA	0.288350		NA	0.004100	0.187825
##		NA	0.292525		NA	0.004000	0.190275
##		NA	0.293975		NA	0.003775	0.192300
##	90	NA	0.295900		NA	0.003525	0.194300
##		popwin_chal po		ev_inc ev_chal			
##		0.811675		220.7868 317.2131	NA	337	429.0
##		0.813775		220.4639 317.5361	NA	337	429.0
##		0.817125		220.3914 317.6086		336	428.0
##		0.814625		220.8551 317.1448		337	428.0
##		0.837150		213.9388 324.0612		331	432.0
## ##		0.834525		213.7483 324.2517 212.5292 325.4708		332 331	432.0
##		0.833375 0.833300		212.5292 325.4708 213.3921 324.6079		331 331	435.0 433.0
##		0.835150					
##	Э	0.033130	IN A	213.0551 324.9449	NA	331	433.0

##	10	0.832300	МΜ	215.0446	322 9554	NA	333	431.0
##		0.826850		216.3484		NA	335	429.0
	12	0.833625		214.7168		NA	333	430.0
##		0.830250		215.2729		NA	333	431.0
##		0.824075		215.5538		NA	336	431.0
##		0.827150		213.2509		NA	335	434.0
	16	0.834300		211.6081		NA	333	433.0
##		0.822425		213.7498		NA	336	434.0
	18	0.816950		215.1911		NA	337	433.0
	19	0.809475		214.9498		NA	337	433.0
##		0.809250	NA	214.5426	323.4573	NA	337	435.0
##	21	0.805325		215.6911		NA	339	433.0
##	22	0.803575		216.0827		NA	339	433.0
##	23	0.798950		217.1632		NA	340	434.0
##	24	0.800725	NA	216.8208	321.1793	NA	341	433.0
##	25	0.797550	NA	217.5150	320.4850	NA	341	433.0
##	26	0.815600	NA	212.0597	325.9403	NA	337	435.0
##	27	0.812500	NA	212.9614	325.0386	NA	337	435.0
##	28	0.812025	NA	213.0605	324.9395	NA	338	435.0
##	29	0.811175	NA	212.7638	325.2362	NA	338	436.0
##	30	0.809225	NA	213.5757	324.4243	NA	340	436.0
##	31	0.831925	NA	208.4238	329.5762	NA	334	436.0
##	32	0.829175	NA	209.0400	328.9600	NA	335	438.0
##	33	0.833400	NA	207.1326	330.8674	NA	333	440.0
##	34	0.826125	NA	208.6976	329.3023	NA	336	438.0
##	35	0.821175	NA	208.3017	329.6984	NA	336	439.0
##	36	0.819325	NA	209.0473	328.9527	NA	337	439.0
##	37	0.816725	NA	209.7756	328.2244	NA	337	440.0
##	38	0.818175	NA	207.8097	330.1903	NA	335	441.0
##	39	0.821075	NA	206.5702	331.4298	NA	335	441.0
##	40	0.814275	NA	208.3234	329.6766	NA	337	441.0
##	41	0.822100	NA	205.5820	332.4180	NA	335	444.0
##	42	0.819125	NA	206.8156	331.1844	NA	334	443.0
##		0.818575		207.1693		NA	335	445.0
##		0.817775		206.6574		NA	335	444.0
##		0.819550		205.8413		NA	335	445.0
##		0.835200		202.8228		NA	330	444.0
##		0.820700		205.0833		NA	335	446.0
##		0.822175		204.7945		NA	335	446.0
##		0.815550		206.4143		NA	337	446.0
##		0.805400		208.5454		NA	338	446.0
##		0.810150		207.4411		NA	338	446.0
##		0.810075		208.0501		NA	337	444.0
##		0.814275		206.8318		NA	337	446.0
	54	0.815175		206.8485		NA	337	446.0
##		0.801100		211.0341		NA	339	444.0
	56	0.843575		202.7701		NA NA	326	443.0
	57	0.840225		202.7701		NA NA	326	444.0
##		0.843775		203.1413		NA NA	326	444.0
##		0.840825		201.9703		NA NA	326 327	444.0
## ##		0.837325		202.0124 202.2096		NA NA	327 328	446.0
##		0.838575						446.0
		0.863225		196.8280		NA NA	318	446.0
##	03	0.862800	ΝA	196.2056	341./944	NA	318	446.0

##	64	0.865100		NΑ	196.2634	341.7366	NA	317	446.0
	65	0.862700				342.5405	NA	317	448.0
	66	0.857250				339.7228	NA	320	446.0
	67	0.860525				341.4927	NA	318	447.0
	68	0.854200				340.2390	NA	322	447.0
	69	0.857700				339.9633	NA	320	447.0
	70	0.852375				338.8086	NA	322	446.0
	71	0.851500				338.4977	NA	322	446.0
	72	0.848300				337.4355	NA	325	446.0
	73	0.839800				336.2005	NA	329	446.0
	74	0.839375				335.9355	NA	327	446.0
##	75	0.836800		NA	203.4893	334.5107	NA	328	444.0
##	76	0.835150		NA	205.0138	332.9862	NA	328	442.5
##	77	0.846625		NA	201.9950	336.0050	NA	326	443.0
##	78	0.841300		NA	203.3475	334.6525	NA	326	443.0
##	79	0.841100		NA	203.9240	334.0760	NA	326	442.0
##	80	0.838150		NA	204.4158	333.5842	NA	328	442.0
##	81	0.818100		NA	211.3559	326.6442	NA	333	438.0
##	82	0.812000		NA	213.6465	324.3535	NA	334	435.0
##	83	0.800200		NA	216.1307	321.8693	NA	337	434.0
##	84	0.800250		NA	216.4880	321.5120	NA	337	434.0
##	85	0.798675		NA	217.2131	320.7869	NA	338	433.0
##	86	0.794850		NA	218.2592	319.7408	NA	339	432.0
##	87	0.812175		NA	213.6946	324.3054	NA	335	434.0
##	88	0.809725	•	NA	214.5781	323.4219	NA	335	433.0
##	89	0.807700		NA	214.0240	323.9760	NA	337	435.0
##	90	0.805700		NA	215.0013	322 9987	NA	337	435.0
##		ev_3rd_hi e	v_inc_lo		_chal_lo	ev_3rd_lo		_voteshar	e_inc
##	1	NA	v_inc_lo 109.0		_chal_lo	ev_3rd_lo NA		_voteshar 46.	e_inc 26345
## ##	2	NA NA	v_inc_lo 109.0 109.0		_chal_lo	ev_3rd_lo NA NA		_voteshar 46. 46.	e_inc 26345 25870
## ## ##	2 3	NA NA NA	v_inc_lo 109.0 109.0 110.0		_chal_lo	ev_3rd_lo NA NA NA		_voteshar 46. 46. 46.	e_inc 26345 25870 28278
## ## ## ##	2 3 4	NA NA NA	v_inc_lo 109.0 109.0 110.0 110.0		_chal_lo	ev_3rd_lo NA NA NA NA		_voteshar 46. 46. 46. 46.	e_inc 26345 25870 28278 30215
## ## ## ##	2 3 4 5	NA NA NA NA	v_inc_lo 109.0 109.0 110.0 110.0 106.0		201 201 201 202 201 207	ev_3rd_lo NA NA NA NA		voteshar 46. 46. 46. 46.	e_inc 26345 25870 28278 30215 02112
## ## ## ## ##	2 3 4 5 6	NA NA NA NA NA	v_inc_lo 109.0 109.0 110.0 110.0 106.0 106.0		201 201 202 202 201 207 206	ev_3rd_lo NA NA NA NA NA		voteshar 46. 46. 46. 46. 46.	e_inc 26345 25870 28278 30215 02112 02100
## ## ## ## ## ##	2 3 4 5 6 7	NA NA NA NA NA	v_inc_lo 109.0 109.0 110.0 110.0 106.0 106.0 103.0		201 201 201 202 201 207 206 207	ev_3rd_lo NA NA NA NA NA		voteshar 46. 46. 46. 46. 46. 45.	e_inc 26345 25870 28278 30215 02112 02100 96653
## ## ## ## ## ##	2 3 4 5 6 7 8	NA NA NA NA NA NA	v_inc_lo 109.0 109.0 110.0 110.0 106.0 106.0 103.0 105.0		201 201 202 202 201 207 206 207 207	ev_3rd_lo NA NA NA NA NA NA		voteshar 46. 46. 46. 46. 46. 45.	e_inc 26345 25870 28278 30215 02112 02100 96653 01094
## ## ## ## ## ##	2 3 4 5 6 7 8 9	NA NA NA NA NA NA	v_inc_lo 109.0 109.0 110.0 110.0 106.0 106.0 103.0 105.0		201 201 202 201 207 206 207 207 207	ev_3rd_lo NA		voteshar 46. 46. 46. 46. 45. 45.	e_inc 26345 25870 28278 30215 02112 02100 96653 01094 99585
## ## ## ## ## ## ##	2 3 4 5 6 7 8 9	NA NA NA NA NA NA NA	v_inc_lo 109.0 109.0 110.0 110.0 106.0 103.0 105.0 105.0 107.0		201 201 202 201 207 206 207 207 207 207 205	ev_3rd_lo NA		_voteshar 46. 46. 46. 46. 45. 45. 46.	e_inc 26345 25870 28278 30215 02112 02100 96653 01094 99585 07849
## ## ## ## ## ## ##	2 3 4 5 6 7 8 9 10 11	NA NA NA NA NA NA NA NA NA	v_inc_lo 109.0 109.0 110.0 110.0 106.0 103.0 105.0 105.0 107.0 109.0		201 201 202 201 207 206 207 207 207 207 205 203	ev_3rd_lo NA		_voteshar 46. 46. 46. 46. 45. 46. 45. 46. 46.	e_inc 26345 25870 28278 30215 02112 02100 96653 01094 99585 07849 13017
## ## ## ## ## ## ##	2 3 4 5 6 7 8 9 10 11 12	NA	v_inc_lo 109.0 109.0 110.0 110.0 106.0 106.0 105.0 105.0 107.0 109.0 108.0		201 201 202 201 207 206 207 207 205 203 205	ev_3rd_lo NA		voteshar 46. 46. 46. 46. 45. 46. 45. 46. 46.	e_inc 26345 25870 28278 30215 02112 02100 96653 01094 99585 07849 13017 08685
## ## ## ## ## ## ## ##	2 3 4 5 6 7 8 9 10 11 12 13	NA	v_inc_lo 109.0 109.0 110.0 110.0 106.0 106.0 105.0 105.0 107.0 109.0 108.0 107.0		201 201 202 201 207 206 207 207 205 203 205 205	ev_3rd_lo NA		voteshar 46. 46. 46. 46. 45. 46. 45. 46. 46.	e_inc 26345 25870 28278 30215 02112 02100 96653 01094 99585 07849 13017 08685 10958
## ## ## ## ## ## ## ##	2 3 4 5 6 7 8 9 10 11 12 13 14	NA	v_inc_lo 109.0 109.0 110.0 110.0 106.0 106.0 105.0 105.0 107.0 109.0 108.0 107.0 107.0		201 201 201 202 201 207 206 207 207 205 203 205 202	ev_3rd_lo NA		voteshar 46. 46. 46. 46. 45. 46. 45. 46. 46. 46.	e_inc 26345 25870 28278 30215 02112 02100 96653 01094 99585 07849 13017 08685 10958
## ## ## ## ## ## ## ## ## ## ## ## ##	2 3 4 5 6 7 8 9 10 11 12 13 14 15	NA	v_inc_lo 109.0 109.0 110.0 110.0 106.0 106.0 105.0 105.0 107.0 109.0 107.0 107.0 107.0 104.0		201 201 201 202 201 207 206 207 205 203 205 202 203	ev_3rd_lo NA		voteshar 46. 46. 46. 46. 45. 46. 45. 46. 46. 46. 46.	e_inc 26345 25870 28278 30215 02112 02100 96653 01094 99585 07849 13017 08685 10958 16774
######################################	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	NA N	v_inc_lo 109.0 109.0 110.0 110.0 106.0 106.0 105.0 105.0 107.0 109.0 107.0 107.0 104.0 105.0		201 201 201 202 201 207 206 207 205 203 205 202 203 205	ev_3rd_lo NA		voteshar 46. 46. 46. 46. 45. 46. 46. 46. 46. 46. 46.	e_inc 26345 25870 28278 30215 02112 02100 96653 01094 99585 07849 13017 08685 10958 16774 05632 98938
######################################	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	NA N	v_inc_lo 109.0 109.0 110.0 110.0 110.0 106.0 105.0 105.0 107.0 109.0 107.0 104.0 105.0 104.0		201 201 201 202 201 207 206 207 207 205 203 205 202 203 205 202 202	ev_3rd_lo NA		_voteshar 46. 46. 46. 46. 45. 46. 45. 46. 46. 46. 46. 46.	e_inc 26345 25870 28278 30215 02112 02100 96653 01094 99585 07849 13017 08685 10958 16774 05632 98938 11533
# # # # # # # # # # # # # # # # # # #	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	NA N	v_inc_lo 109.0 109.0 110.0 110.0 110.0 106.0 105.0 105.0 107.0 109.0 107.0 107.0 104.0 105.0 104.0 105.0		201 201 201 202 201 207 206 207 205 203 205 202 203 205 202 201	ev_3rd_lo NA		_voteshar 46. 46. 46. 46. 45. 46. 45. 46. 46. 46. 46. 46. 46. 46.	e_inc 26345 25870 28278 30215 02112 02100 96653 01094 99585 07849 13017 08685 10958 16774 05632 98938 11533 17112
########################	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	NA N	v_inc_lo 109.0 109.0 110.0 110.0 110.0 106.0 105.0 105.0 107.0 109.0 107.0 107.0 104.0 105.0 105.0 105.0		201 201 201 202 201 207 206 207 205 205 205 202 201 201 201 201	ev_3rd_lo NA		voteshar 46. 46. 46. 46. 45. 46. 46. 46. 46. 46. 46. 46. 46.	e_inc 26345 25870 28278 30215 02112 02100 96653 01094 99585 07849 13017 08685 10958 16774 05632 98938 11533 17112 20192
########################	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	NA N	v_inc_lo 109.0 109.0 110.0 110.0 110.0 106.0 106.0 105.0 107.0 109.0 107.0 107.0 104.0 105.0 105.0 105.0 105.0 105.0 105.0		201 201 201 207 206 207 207 205 203 205 202 201 201 201 201 201 201	ev_3rd_lo NA		voteshar 46. 46. 46. 46. 45. 46. 45. 46. 46. 46. 46. 46. 46. 46. 46. 46. 46	e_inc 26345 25870 28278 30215 02112 02100 96653 01094 99585 07849 13017 08685 10958 16774 05632 98938 11533 17112 20192
############################	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	NA N	v_inc_lo 109.0 109.0 110.0 110.0 110.0 106.0 106.0 105.0 107.0 109.0 107.0 107.0 104.0 105.0 105.0 105.0 105.0 105.0 105.0		201 201 201 207 206 207 207 205 203 205 202 201 201 201 201 199	ev_3rd_lo NA		voteshar 46. 46. 46. 46. 45. 46. 46. 45. 46. 46. 46. 46. 46. 46. 46. 46. 46. 46	e_inc 26345 25870 28278 30215 02112 02100 96653 01094 99585 07849 13017 08685 10958 16774 05632 98938 11533 17112 20192 19029 24909
##########################	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	NA N	v_inc_lo 109.0 109.0 110.0 110.0 110.0 106.0 106.0 105.0 107.0 109.0 107.0 107.0 104.0 105.0 105.0 105.0 105.0 105.0 105.0		201 201 201 207 206 207 207 205 203 205 202 201 201 201 201 201 201	ev_3rd_lo NA		voteshar 46. 46. 46. 46. 45. 46. 46. 45. 46. 46. 46. 46. 46. 46. 46. 46. 46. 46	e_inc 26345 25870 28278 30215 02112 02100 96653 01094 99585 07849 13017 08685 10958 16774 05632 98938 11533 17112 20192
###########################	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	NA N	v_inc_lo 109.0 109.0 110.0 110.0 110.0 106.0 105.0 105.0 107.0 109.0 107.0 107.0 104.0 105.0 105.0 105.0 105.0 105.0 105.0 105.0 105.0 105.0 105.0		201 201 201 207 206 207 207 205 203 205 202 201 201 201 199 199	ev_3rd_lo NA		_voteshar 46. 46. 46. 46. 45. 46. 45. 46. 46. 46. 46. 46. 46. 46. 46. 46. 46	e_inc 26345 25870 28278 30215 02112 02100 96653 01094 99585 07849 13017 08685 10958 16774 05632 98938 11533 17112 20192 19029 24909 26159
############################	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	NA N	v_inc_lo 109.0 109.0 110.0 110.0 110.0 106.0 103.0 105.0 107.0 109.0 107.0 107.0 104.0 105.0 105.0 105.0 105.0 105.0 105.0 105.0 104.0 105.0 105.0 105.0 105.0 105.0 105.0 105.0 105.0		201 201 201 207 206 207 207 205 203 205 202 201 201 201 199 199 198	ev_3rd_lo NA		_voteshar 46. 46. 46. 46. 45. 46. 45. 46. 46. 46. 46. 46. 46. 46. 46. 46. 46	e_inc 26345 25870 28278 30215 02112 02100 96653 01094 99585 07849 13017 08685 10958 16774 05632 98938 11533 17112 20192 19029 24909 26159 29543
#############################	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	NA N	v_inc_lo 109.0 109.0 110.0 110.0 110.0 106.0 105.0 105.0 107.0 109.0 107.0 104.0 105.0 105.0 105.0 105.0 105.0 105.0 105.0 105.0 105.0 105.0 105.0 105.0 105.0 105.0 105.0 105.0		201 201 201 207 206 207 207 205 203 205 202 201 201 201 201 199 199 198 197	ev_3rd_lo NA		_voteshar 46. 46. 46. 46. 45. 46. 45. 46. 46. 46. 46. 46. 46. 46. 46. 46. 46	e_inc 26345 25870 28278 30215 02112 02100 96653 01094 99585 07849 13017 08685 10958 16774 05632 98938 11533 17112 20192 19029 24909 26159 29543 28619

##	27	NA	103.0	201	NA	46.13739
##	28	NA	103.0	200	NA	46.13912
##	29	NA	102.0	200	NA	46.11985
##	30	NA	102.0	198	NA	46.14778
##	31	NA	102.0	204	NA	45.93544
##	32	NA	100.0	203	NA	45.92358
##	33	NA	98.0	205	NA	45.85881
##	34	NA	100.0	202	NA	45.91749
##	35	NA	99.0	202	NA	45.97368
##	36	NA	99.0	201	NA	45.99001
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##	38	NA	97.0	203	NA	45.94709
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##	45	NA	93.0	203	NA	45.83747
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##	47	NA	92.0	203	NA	45.80495
##	48	NA	92.0	203	NA	45.78563
##	49	NA	92.0	201	NA	45.85665
##	50	NA	92.0	200	NA	45.93150
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##	55	NA	94.0	199	NA	46.00682
##	56	NA	95.0	212	NA	45.65043
##	57	NA	94.0	212	NA	45.65899
##	58	NA	93.0	212	NA	45.59909
##	59	NA	94.0	211	NA	45.64618
##	60	NA	92.0	211	NA	45.62083
##	61	NA	92.0	210	NA	45.61910
##	62	NA	92.0	220	NA	45.39993
##	63	NA	92.0	220	NA	45.40212
##		NA	92.0	221	NA	45.40378
##	65	NA	90.0	221	NA	45.36304
##	66	NA	92.0	218	NA	45.47114
##	67	NA	91.0	220	NA	45.38713
##	68	NA	91.0	216	NA	45.44068
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##	70	NA	92.0	216	NA	45.48504
##	71	NA	92.0	216	NA	45.49785
##	72	NA	92.0	213	NA	45.53778
##	73	NA	92.0	209	NA	45.61443
##	74	NA	92.0	211	NA	45.61938
##	75	NA	94.0	210	NA	45.68271
##	76	NA	95.5	210	NA	45.75811
##	77	NA	95.0	212	NA	45.60586
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##	81	NA 100.0	205	NA	46.01114
##	82	NA 103.0	204	NA	46.13130
##	83	NA 104.0	201	NA	46.24477
##	84	NA 104.0	201	NA	46.27370
##	85	NA 105.0	200	NA	46.31012
##	86	NA 106.0	199	NA	46.36461
##	87	NA 104.0	203	NA	46.17122
##	88	NA 105.0	203	NA	46.22312
##	89	NA 103.0	201	NA	46.17807
##	90	NA 103.0	201	NA	46.20322
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##	4	52.37	099	NA	1.326856
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##		52.63		NA	1.282259
	11	52.58		NA	1.283783
	12	52.63		NA	1.283045
	13	52.61		NA	1.279983
	14	52.54		NA	1.283478
	15 16	52.65 52.71		NA NA	1.292678 1.297362
	17	52.79		NA NA	1.291699
	18	52.52		NA NA	1.304139
	19	52.49		NA NA	1.303546
	20	52.49		NA	1.318731
	21	52.43		NA	1.318526
	22	52.41		NA	1.321599
	23	52.38		NA	1.319530
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##	30	52.53	598	NA	1.316235
##	31	52.74	822	NA	1.316337
##	32	52.74	941	NA	1.327006
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	35	52.68		NA	1.338491
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	37	52.66		NA	1.334995
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	39	52.77		NA	1.327248
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##	43	52.79	SUS	NA	1.311972

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	54	52.82038	NA	1.324095
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##	57	53.02658	NA	1.314429
##	58	53.08897	NA	1.311937
##	59	53.04318	NA	1.310638
##	60	53.07158	NA	1.307595
##	61	53.07162	NA	1.309282
##	62	53.29433	NA	1.305736
##	63	53.29407	NA	1.303815
##	64	53.29099	NA	1.305233
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##	66	53.23003	NA	1.298833
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	69	53.28255	NA	1.308633
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	74	53.05688	NA	1.323733
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##	77	53.07205	NA	1.322089
	78	53.00398	NA NA	1.314134
	79	52.94989	NA	1.319247
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##		52.55380	NA NA	
##			NA NA	1.314901
##		52.43583	NA NA	1.319401
##		52.41333		1.312971
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	88	52.47629	NA 	1.300588
	89	52.50252	NA 	1.319418
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## 12	50.46551	57.04149
## 13	50.53724	57.08716
## 14	50.68077	57.06306
## 15	50.63273	57.21465
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## 17	50.64245	57.13207
## 18	50.70852	57.11084
## 19	50.83683	57.10124
## 20	50.86157	57.14674
## 21	50.95182	57.08838
## 22	50.90287	57.07491
## 23	51.01738	57.09568
## 24	51.04249	57.13195
## 25	51.07544	57.09853
## 26	50.79708	57.24018
## 27	50.85131	57.25592
## 28	50.89564	57.26371
## 29	50.86026	57.29603
## 30	50.89336	57.31334
## 31	50.53705	57.31424
## 32	50.57730	57.41732
## 33	50.51357	57.47815
## 34	50.67381	57.51265
## 35	50.72295	57.42074
## 36	50.81696	57.41073
## 37	50.81271	57.48201
## 38	50.77929	57.56994
## 39	50.78386	57.56590
## 40	50.84897	57.62970
## 41	50.79581	57.76260
## 42	50.81057	57.69178
## 43	50.83132	57.75053
## 44	50.84206	57.76880
## 45	50.77852	57.80231
## 46	50.58324	57.78214
## 47	50.81122	57.86454
## 48	50.83285	57.92501
## 49	50.96870	57.89326
## 50	51.06208	57.84136
## 51	51.00501	57.90038
## 52	51.00532	57.83777
## 53	50.98801	57.89178
## 54	50.93465	57.89341
## 55	51.19341	57.79437
## 56	50.38384	57.78221
## 57	50.45331	57.82705
## 58	50.39472	57.87640
## 59	50.45094	57.82728
## 60	50.48866	57.95334

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## 89
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##
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## 3
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## 4
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                               NA
                                                  2.027544
                                                                              41.56429
## 19
                               NA
                                                  2.028735
                                                                              41.59494
                                                                              41.55241
## 20
                               NA
                                                  2.034930
## 21
                               NA
                                                  2.041819
                                                                              41.57322
## 22
                               NA
                                                  2.040766
                                                                              41.58996
## 23
                                                  2.049613
                                                                              41.58004
```

## 24	NA	2.040946	41.55771
## 25	NA	2.043509	41.55804
## 26	NA	2.051642	41.43733
## 27	NA	2.043417	41.45840
## 28	NA	2.046737	41.42797
## 29	NA	2.046081	41.35671
## 30	NA	2.039262	41.40097
## 31	NA	2.040273	41.39065
## 32	NA	2.056378	41.25378
## 33	NA	2.047201	41.19240
## 34	NA	2.069063	41.17569
## 35	NA	2.060007	41.26720
## 36	NA	2.067447	41.24988
## 37	NA	2.060524	41.15303
## 38	NA	2.080228	41.13475
## 39	NA	2.062582	41.08658
## 40	NA	2.074060	41.06457
## 41	NA	2.062026	40.92534
## 42	NA	2.041990	40.96729
## 43	NA	2.041330	40.94530
## 44	NA	2.055070	40.94330
## 45	NA	2.064911	40.86111
## 46	NA	2.057694	40.90490
## 40 ## 47	NA NA	2.058922	40.81569
## 48	NA	2.064288	40.74932
## 49	NA	2.064648	40.74332
## 50	NA	2.071240	40.79703
## 50 ## 51	NA	2.069298	40.77045
## 52	NA	2.061967	40.77043
## 53	NA	2.067130	40.75243
## 54	NA	2.085074	40.77628
## 55	NA	2.070406	40.77628
## 56	NA	2.045832	40.91089
## 57	NA	2.047497	40.84191
## 58	NA	2.047345	40.80989
## 59	NA	2.047343	40.84299
## 60	NA	2.0400242	40.74539
## 61	NA	2.045883	40.79374
## 62	NA	2.030914	40.73306
## 63	NA	2.031408	40.79256
## 64	NA	2.030622	40.77088
## 65	NA	2.029991	40.67146
## 66	NA	2.029991	40.78851
## 67	NA	2.035001	40.65841
## 68	NA	2.056763	40.67317
## 69	NA	2.048503	40.59536
## 70	NA NA	2.040303	40.70179
## 70 ## 71	NA NA	2.028631	40.70179
## 71 ## 72	NA NA	2.045823	40.72705
## 72 ## 73	NA NA	2.043623	40.72630
## 73 ## 74	NA NA	2.051174	40.75797
## 74 ## 75	NA NA	2.061718	40.75835
## 75 ## 76	NA NA	2.055342	40.80313
## 76 ## 77	NA NA	2.051385	40.92510
## (I	IVA	2.001300	40.00003

	70	37.4	0.054705	40, 00450
##		NA	2.051785	40.89159
##		NA	2.043238	40.99991
##		NA	2.038496	41.04717
##		NA	2.049852	41.27679
##		NA	2.047077	41.38594
##		NA	2.051627	41.52457
##		NA	2.049617	41.49504
##		NA	2.050900	41.62245
##		NA	2.035725	41.62989
##		NA	2.039343	41.49159
##		NA	2.027426	41.60196
##		NA	2.049306	41.44363
##	90	NA	2.042146	41.49165
##		${\tt national_voteshare_chal_lo}$		
##		47.88276	NA	0.7007713
##		47.90101	NA	0.7022665
##		47.98074	NA	0.6946608
##		47.91171	NA	0.6934588
##		48.26421	NA	0.6764926
##		48.18879	NA	0.6792486
##		48.20748	NA	0.6702565
##		48.20979	NA	0.6636156
##		48.24926	NA	0.6572114
##		48.17797	NA	0.6552740
##		48.12635	NA	0.6547295
##		48.22936	NA	0.6494714
##		48.18307	NA	0.6515047
##		48.06044	NA	0.6544272
##		48.07320	NA	0.6589594
##		48.21701	NA	0.6632900
##		48.04206	NA	0.6602212
##		47.97743	NA	0.6663016
##		47.85249	NA	0.6627616
##		47.82245	NA	0.6770315
##		47.72408	NA	0.6778314
	22	47.74853	NA	0.6818589
##		47.65911	NA	0.6830333
##		47.63836	NA	0.6809334
##		47.58785	NA	0.6848398
	26	47.88954	NA	0.6713542
	27	47.84332	NA	0.6747655
	28	47.76087	NA	0.6751224
	29	47.80448	NA	0.6773493
	30	47.77644	NA	0.6756095
##		48.10459	NA	0.6791376
	32	48.10526	NA	0.6823090
	33	48.15805	NA	0.6911978
##		48.00462	NA	0.6958647
	35	47.95403	NA	0.6963304
	36	47.85799	NA	0.6928883
##		47.82852	NA	0.6884896
##		47.90079	NA	0.6927854
##		47.88440	NA	0.6800984
##	40	47.79524	NA	0.6910916

##	41	47.89375	NA	0.6821630
##	42	47.88055	NA	0.6704755
##	43	47.86944	NA	0.6680883
##	44	47.84240	NA	0.6671382
##	45	47.90779	NA	0.6639907
##	46	48.11746	NA	0.6696864
##	47	47.87369	NA	0.6724886
##	48	47.83879	NA	0.6674164
##	49	47.72194	NA	0.6759626
##	50	47.59866	NA	0.6713284
##	51	47.68229	NA	0.6659154
##	52	47.66722	NA	0.6737902
##	53	47.69514	NA	0.6688289
##	54	47.73086	NA	0.6621054
##	55	47.48414	NA	0.6696514
##	56	48.25012	NA	0.6748977
	57	48.23739	NA	0.6702497
	58	48.28157	NA	0.6673132
	59	48.25150	NA	0.6632474
##	60	48.21278	NA	0.6615871
##	61	48.19541	NA	0.6640405
##	62	48.61784	NA	0.6649159
	63	48.59251	NA	0.6616051
##	64	48.67001	NA	0.6599336
##	65	48.61265	NA	0.6623695
##	66	48.51783	NA	0.6553170
##	67	48.58786	NA	0.6588315
##	68	48.44623	NA	0.6635910
##	69	48.48858	NA	0.6628679
	70	48.40547	NA	0.6615897
##	71	48.41396	NA	0.6607718
##	72	48.32314	NA	0.6591908
	73	48.17367	NA	0.6700203
	74	48.17007	NA	0.6750205
	75 76	48.15334	NA	0.6680158
	76 77	48.12600	NA	0.6673417
	77	48.30339	NA NA	0.6721538
##		48.24353 48.22766	NA NA	0.6686158
## ##				0.6726680
##		48.18432 47.92501	NA NA	0.6725276 0.6655345
##		47.83714	NA NA	0.6707772
##		47.69545	NA NA	0.6739508
##		47.63892		0.6684470
##		47.62445	NA NA	0.6645366
##		47.55882		0.6656066
##		47.87417	NA	0.6616863
##		47.85891	NA NA	0.6611356
##		47.74026	NA	0.6755669
##		47.73165	NA	0.6759679
##	- 0	timestamp simul		3.3.33318
##	1	19:00:02 29 Aug 2020	40000	
##		19:00:03 28 Aug 2020	40000	
##		19:00:04 27 Aug 2020	40000	
		5		

##	4	19:01:03	26	Aug	2020	40000
##	5	23:50:03	25	Aug	2020	40000
##	6	20:38:02	24	Aug	2020	40000
##	7	19:00:03	23	Aug	2020	40000
##	8	19:00:03	22	Aug	2020	40000
##	9	19:26:02	21	Aug	2020	40000
##	10	19:00:04	20	Aug	2020	40000
##	11	23:52:08	19	Aug	2020	40000
##	12	19:23:03	18	Aug	2020	40000
##	13	22:43:02	17	Aug	2020	40000
##	14	20:17:02	16	Aug	2020	40000
##	15	19:00:05	15	Aug	2020	40000
##	16	19:00:02	14	Aug	2020	40000
##	17	21:50:04	13	Aug	2020	40000
##	18	23:41:03	12	_	2020	40000
##	19	19:08:03	11	Aug	2020	40000
##	20	23:50:02	10	Aug	2020	40000
	21			Aug		40000
##	22	10:15:37	10	Aug	2020	
##		10:19:17	10	Aug	2020	40000
##	23	10:19:37	10	Aug	2020	40000
##	24	10:19:52	10	Aug	2020	40000
##	25	10:19:56	10	Aug	2020	40000
##	26	10:22:17	10	Aug	2020	40000
##	27	10:25:40	10	Aug	2020	40000
##	28	10:26:03	10	Aug	2020	40000
##	29	10:26:11	10	Aug	2020	40000
##	30	10:26:36	10	Aug	2020	40000
##	31	10:28:57	10	Aug	2020	40000
##	32	10:32:02	10	Aug	2020	40000
##	33	10:32:31	10	Aug	2020	40000
##	34	10:32:26	10	Aug	2020	40000
##	35	10:33:13	10	Aug	2020	40000
##	36	10:35:37	10	Aug	2020	40000
##	37	10:38:25	10	Aug	2020	40000
##	38	10:38:51	10	Aug	2020	40000
##	39	10:38:41	10	Aug	2020	40000
##	40	10:39:48	10	Aug	2020	40000
##	41	10:42:12	10	Aug	2020	40000
##	42	10:44:46	10	Aug	2020	40000
##	43	10:45:11	10	Aug	2020	40000
##	44	10:44:52	10	Aug	2020	40000
##	45	10:46:23	10	Aug	2020	40000
##	46	10:48:47	10	Aug	2020	40000
##	47	10:51:08	10	Aug		40000
##	48	10:51:31	10	Aug		40000
##	49	10:51:04	10	Aug		40000
##	50	10:52:57	10	Aug		40000
##	51	10:55:24	10	Aug		40000
##	52	10:57:25	10	Aug		40000
##	53	10:57:48	10	Aug		40000
##	54	10:57:16	10	Aug		40000
##	55	10:59:26	10	Aug		40000
##	56	11:01:55	10	Aug		40000
##	57	11:03:40	10	Aug	2020	40000
ırπ	01	11.00.40	10	11ug	2020	±0000

```
## 58 11:04:06 10 Aug 2020
                                  40000
## 59 11:03:27 10 Aug 2020
                                  40000
## 60 11:05:57 10 Aug 2020
                                  40000
## 61 11:08:25 10 Aug 2020
                                  40000
## 62 11:09:55 10 Aug 2020
                                  40000
## 63 11:10:24 10 Aug 2020
                                  40000
## 64 11:09:37 10 Aug 2020
                                  40000
## 65 11:12:25 10 Aug 2020
                                  40000
## 66 11:14:55 10 Aug 2020
                                  40000
## 67 11:16:09 10 Aug 2020
                                  40000
## 68 11:16:41 10 Aug 2020
                                  40000
## 69 11:15:47 10 Aug 2020
                                  40000
## 70 11:18:56 10 Aug 2020
                                  40000
## 71 11:21:24 10 Aug 2020
                                  40000
## 72 11:45:11 10 Aug 2020
                                  40000
## 73 11:46:38 10 Aug 2020
                                  40000
## 74 11:47:02 10 Aug 2020
                                  40000
## 75 11:25:22 10 Aug 2020
                                  40000
## 76 11:27:55 10 Aug 2020
                                  40000
## 77 11:51:25 10 Aug 2020
                                  40000
## 78 11:52:52 10 Aug 2020
                                  40000
## 79 11:22:22 10 Aug 2020
                                  40000
## 80 11:31:50 10 Aug 2020
                                  40000
## 81 11:34:24 10 Aug 2020
                                  40000
## 82 11:57:35 10 Aug 2020
                                  40000
## 83 11:59:04 10 Aug 2020
                                  40000
## 84 11:28:26 10 Aug 2020
                                  40000
## 85 11:47:23 10 Aug 2020
                                  40000
## 86 11:40:55 10 Aug 2020
                                  40000
## 87 12:03:40 10 Aug 2020
                                  40000
## 88 11:24:29 10 Aug 2020
                                  40000
## 89 11:34:32 10 Aug 2020
                                  40000
## 90 11:53:49 10 Aug 2020
                                  40000
```

Data Frame

Here is a subset of the data available in the above mentioned link.

```
Poll <- read.csv('https://projects.fivethirtyeight.com/2020-general-data/presidential_national_toplines
retval <- subset(Poll, ev_inc_hi>="341")
print(retval)
```

```
##
                           model modeldate candidate_inc candidate_chal
               branch
      cvcle
## 24 2020 President polls-plus 8/6/2020
## 25 2020 President polls-plus 8/5/2020
                                                    Trump
                                                                    Biden
##
      candidate_3rd ecwin_inc ecwin_chal ecwin_3rd ec_nomajority popwin_inc
## 24
                 NA 0.293200
                                0.703325
                                                 NA
                                                         0.003475
                                                                     0.199275
## 25
                 NA 0.297725
                                0.698925
                                                 NA
                                                         0.003350
##
      popwin_chal popwin_3rd
                                ev_inc ev_chal ev_3rd ev_inc_hi ev_chal_hi
## 24
         0.800725
                          NA 216.8208 321.1793
                                                    NA
                                                              341
                                                                         433
                                                                         433
## 25
         0.797550
                          NA 217.5150 320.4850
                                                    NA
                                                              341
      ev_3rd_hi ev_inc_lo ev_chal_lo ev_3rd_lo national_voteshare_inc
## 24
                      105
             NA
                                  197
                                             NA
                                                               46.28619
## 25
             NA
                      105
                                  197
                                             NA
                                                               46.31205
      national_voteshare_chal national_voteshare_3rd nat_voteshare_other
```

```
## 24
                      52.39062
                                                    NA
                                                                  1.323194
## 25
                                                                  1.325420
                      52.36253
                                                    NA
##
      national_voteshare_inc_hi national_voteshare_chal_hi
## 24
                        51.04249
                                                    57.13195
## 25
                        51.07544
                                                    57.09853
##
      national_voteshare_3rd_hi nat_voteshare_other_hi national_voteshare_inc_lo
## 24
                                                2.040946
                                                                           41.55771
## 25
                              NA
                                                2.043509
                                                                           41.55804
##
      national_voteshare_chal_lo national_voteshare_3rd_lo nat_voteshare_other_lo
## 24
                         47.63836
                                                          NA
                                                                           0.6809334
## 25
                         47.58785
                                                          NA
                                                                           0.6848398
##
                 timestamp simulations
## 24 10:19:52 10 Aug 2020
                                  40000
                                  40000
## 25 10:19:56 10 Aug 2020
```

Conclusions

From the data collected we can conclude that Biden has more chances of winning when compared to Trump. Trump's chance of winning is 30 in 100 whereas Biden's chance of winning is 69 in 100