
 Algorithm to estimate the propensity score

The treatment is treatment_region_strict

(mean) treatment_r egion_stric t	Freq.	Percent	Cum.
0	370	66.91	66.91
1	183	33.09	100.00
Total	553	100.00	

Estimation of the propensity score

Iteration 0: log likelihood = -351.0609
 Iteration 1: log likelihood = -321.79952
 Iteration 2: log likelihood = -320.27234
 Iteration 3: log likelihood = -320.25341
 Iteration 4: log likelihood = -320.2534

Logistic regression	Number of obs	=	553
	LR chi2(6)	=	61.61
	Prob > chi2	=	0.0000
Log likelihood = -320.2534	Pseudo R2	=	0.0878

treatment_~t	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
piped_water	-.6334503	.555994	-1.14	0.255	-1.723178 .4562779
flush_toilet	-1.641144	.7944526	-2.07	0.039	-3.198242 -.0840453
hindu	2.369099	.5509897	4.30	0.000	1.289179 3.449019
SC_ST	1.517527	.5529387	2.74	0.006	.4337872 2.601267
pucca_house	-.3920735	.6674778	-0.59	0.557	-1.700306 .9161589
rural	-2.742405	.6884359	-3.98	0.000	-4.091714 -1.393095
_cons	.0237752	.9933952	0.02	0.981	-1.923244 1.970794

Note: the common support option has been selected
 The region of common support is [.04975746, .70299917]

Description of the estimated propensity score
in region of common support

Estimated propensity score				

	Percentiles	Smallest		
1%	.0610154	.0497575		
5%	.0931619	.0498419		
10%	.1314941	.051594	Obs	542
25%	.2196259	.0531312	Sum of Wgt.	542
50%	.3382807		Mean	.3369623
		Largest	Std. Dev.	.1466539
75%	.4409309	.6756522		
90%	.5191795	.6823063	Variance	.0215074
95%	.5977188	.6874448	Skewness	.0557434
99%	.6655104	.7029992	Kurtosis	2.331471

Step 1: Identification of the optimal number of blocks
Use option detail if you want more detailed output

Distribution of treated and controls across blocks

Blocks of the pscore for treatment treatment_ region_str ict	(mean) treatment_region_stri ct		Total
	0	1	

1	93	23	116
2	181	57	238
3	78	84	162
4	7	19	26

Total	359	183	542

Test that the mean propensity score is not different for treated and controls

Test in block 1

Observations in block 1
116

Controls in block 1
93

Treated in block 1
23

Test for block 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	93	.1348365	.0046191	.0445451	.1256626	.1440105
1	23	.1312315	.0092016	.0441291	.1121487	.1503144
combined	116	.1341217	.0041127	.0442949	.1259753	.1422682
diff		.003605	.0103548		-.0169079	.0241178
diff = mean(0) - mean(1)				t =	0.3481	
Ho: diff = 0				degrees of freedom =	114	
Ha: diff < 0		Ha: diff != 0		Ha: diff > 0		
Pr(T < t) = 0.6358		Pr(T > t) = 0.7284		Pr(T > t) = 0.3642		

The mean propensity score is not different for treated and controls in block 1

Test in block 2

Observations in block 2
238

Controls in block 2
181

Treated in block 2
57

Test for block 2

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	181	.3047268	.0043123	.0580163	.2962176	.313236
1	57	.3291562	.0064259	.0485145	.3162836	.3420288
combined	238	.3105775	.0036792	.0567598	.3033294	.3178256
diff		-.0244294	.0084915		-.0411583	-.0077005
diff = mean(0) - mean(1)				t = -2.8769		
Ho: diff = 0				degrees of freedom = 236		
Ha: diff < 0		Ha: diff != 0		Ha: diff > 0		
Pr(T < t) = 0.0022		Pr(T > t) = 0.0044		Pr(T > t) = 0.9978		

The mean propensity score is different for treated and controls in block 2
Split the block 2 and retest all blocks

Check that blocks have shifted

Blocks of the pscore for treatment		(mean)		
treatment_region_str	ict	treatment_region_str	ct	
		0	1	Total
1		93	23	116
2		181	57	238
4		78	84	162
5		7	19	26
Total		359	183	542

Test in block 2

Observations in block 2

105

Controls in block 2

89

Treated in block 2

16

Test for block 2

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	89	.2542556	.0031384	.029608	.2480186	.2604926
1	16	.2672304	.0072447	.0289788	.2517887	.2826721
combined	105	.2562327	.0029029	.0297463	.2504761	.2619893
diff		-.0129748	.0080152		-.0288711	.0029215

diff = mean(0) - mean(1)

t = -1.6188

Ho: diff = 0

degrees of freedom = 103

Ha: diff < 0

Pr(T < t) = 0.0543

Ha: diff != 0

Pr(|T| > |t|) = 0.1086

Ha: diff > 0

Pr(T > t) = 0.9457

The mean propensity score is not different for treated and controls in block 2

Test in block 3

Observations in block 3

133

Controls in block 3

92

Treated in block 3

41

Test for block 3

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	92	.3535522	.0031426	.030143	.3473097	.3597946

1		41	.3533224	.004547	.0291148	.3441326	.3625121
-----+							
combined		133	.3534813	.002577	.0297198	.3483837	.358579
-----+							
diff			.0002298	.0056019		-.0108521	.0113117

diff = mean(0) - mean(1)						t =	0.0410
Ho: diff = 0						degrees of freedom =	131
Ha: diff < 0			Ha: diff != 0			Ha: diff > 0	
Pr(T < t) = 0.5163			Pr(T > t) = 0.9673			Pr(T > t) = 0.4837	

The mean propensity score is not different for treated and controls in block 3

Test in block 4

Observations in block 4
162

Controls in block 4
78
Treated in block 4
84

Test for block 4

Two-sample t test with equal variances

Group		Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]
-----+						
0		78	.4688632	.005864	.0517895	.4571865 .4805399
1		84	.4781071	.0051819	.0474932	.4678004 .4884138
-----+						
combined		162	.4736563	.0039024	.0496695	.4659498 .4813628
-----+						
diff			-.0092439	.0078004		-.0246489 .0061611

diff = mean(0) - mean(1)						t = -1.1851
Ho: diff = 0						degrees of freedom = 160
Ha: diff < 0			Ha: diff != 0			Ha: diff > 0
Pr(T < t) = 0.1189			Pr(T > t) = 0.2378			Pr(T > t) = 0.8811

The mean propensity score is not different for treated and controls in block 4

Test in block 5

Observations in block 5

26

Controls in block 5

7

Treated in block 5

19

Test for block 5

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	7	.624085	.0095969	.0253909	.6006023	.6475676
1	19	.6345821	.0076026	.0331388	.6186097	.6505545
combined	26	.631756	.0061016	.0311121	.6191895	.6443224
diff		-.0104972	.0138751		-.039134	.0181397
diff = mean(0) - mean(1)				t = -0.7565		
Ho: diff = 0				degrees of freedom = 24		
Ha: diff < 0		Ha: diff != 0		Ha: diff > 0		
Pr(T < t) = 0.2283		Pr(T > t) = 0.4567		Pr(T > t) = 0.7717		

The mean propensity score is not different for treated and controls in block 5

Test in block 6

Observations in block 6

0

Block 6 does not have observations

Move to next block

The final number of blocks is 5

This number of blocks ensures that the mean propensity score is not different for treated and controls in each block

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*****
Step 2: Test of balancing property of the propensity score
Use option detail if you want more detailed output
*****
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*****
Testing the balancing property in block 1
*****
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Observations in block 1
116

Controls in block 1
93

Treated in block 1
23

Testing the balancing property for variable piped_water in block 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	93	.4465287	.0285905	.2757164	.3897456	.5033118
1	23	.5377143	.0522093	.2503868	.4294389	.6459897
combined	116	.4646086	.0252816	.2722911	.4145306	.5146865
diff		-.0911856	.0631122		-.2162104	.0338391

diff = mean(0) - mean(1) t = -1.4448
Ho: diff = 0 degrees of freedom = 114

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
Pr(T < t) = 0.0756	Pr(T > t) = 0.1513	Pr(T > t) = 0.9244

Variable piped_water is balanced in block 1

Testing the balancing property for variable flush_toilet in block 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	93	.6836664	.0224212	.2162227	.6391358	.7281969
1	23	.7787897	.0247229	.118567	.7275175	.830062
combined	116	.702527	.0189241	.2038187	.6650421	.740012
diff		-.0951234	.0468322		-.1878976	-.0023492
diff = mean(0) - mean(1)				t = -2.0312		
Ho: diff = 0				degrees of freedom = 114		
Ha: diff < 0		Ha: diff != 0		Ha: diff > 0		
Pr(T < t) = 0.0223		Pr(T > t) = 0.0446		Pr(T > t) = 0.9777		

Variable flush_toilet is balanced in block 1

Testing the balancing property for variable hindu in block 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	93	.429588	.0367196	.3541105	.3566598	.5025162
1	23	.5032961	.0478003	.2292423	.4041643	.6024279
combined	116	.4442026	.0309672	.3335266	.3828626	.5055426
diff		-.0737081	.077704		-.2276391	.080223
diff = mean(0) - mean(1)				t = -0.9486		
Ho: diff = 0				degrees of freedom = 114		
Ha: diff < 0		Ha: diff != 0		Ha: diff > 0		
Pr(T < t) = 0.1724		Pr(T > t) = 0.3448		Pr(T > t) = 0.8276		

Variable hindu is balanced in block 1

Testing the balancing property for variable SC_ST in block 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	93	.504237	.037053	.3573267	.4306464	.5778275
1	23	.3801431	.0535489	.2568115	.2690895	.4911968
combined	116	.4796322	.0317903	.3423916	.4166618	.5426026
diff		.1240938	.0792357		-.0328714	.2810591

diff = mean(0) - mean(1) t = 1.5661
Ho: diff = 0 degrees of freedom = 114

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.9400 Pr(|T| > |t|) = 0.1201 Pr(T > t) = 0.0600

Variable SC_ST is balanced in block 1

Testing the balancing property for variable pucca_house in block 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	93	.5231078	.0282804	.2727263	.4669405	.5792751
1	23	.6497645	.0485767	.2329658	.5490226	.7505065
combined	116	.5482208	.0249929	.2691814	.4987147	.5977268
diff		-.1266567	.0618324		-.2491463	-.0041671

diff = mean(0) - mean(1) t = -2.0484
Ho: diff = 0 degrees of freedom = 114

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.0214 Pr(|T| > |t|) = 0.0428 Pr(T > t) = 0.9786

Variable pucca_house is balanced in block 1

Testing the balancing property for variable rural in block 1

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	93	.7724349	.0190803	.1840034	.7345399	.81033

1		23	.6832135	.0306058	.1467801	.619741	.746686
-----+							
combined		116	.7547445	.0167342	.1802325	.7215973	.7878916
-----+							
diff			.0892214	.0413189		.007369	.1710738

diff = mean(0) - mean(1)						t =	2.1593
Ho: diff = 0						degrees of freedom =	114
Ha: diff < 0			Ha: diff != 0			Ha: diff > 0	
Pr(T < t) = 0.9835			Pr(T > t) = 0.0329			Pr(T > t) = 0.0165	

Variable rural is balanced in block 1

Testing the balancing property in block 2

Observations in block 2
105

Controls in block 2
89

Treated in block 2
16

Testing the balancing property for variable piped_water in block 2

Two-sample t test with equal variances

Group		Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
-----+							
0		89	.3718559	.028809	.2717835	.314604	.4291077
1		16	.3863507	.0567955	.2271819	.265294	.5074074
-----+							
combined		105	.3740646	.025815	.2645253	.3228724	.4252568
-----+							
diff			-.0144948	.0721639		-.1576148	.1286252

diff = mean(0) - mean(1)						t =	-0.2009
Ho: diff = 0						degrees of freedom =	103
Ha: diff < 0			Ha: diff != 0			Ha: diff > 0	
Pr(T < t) = 0.4206			Pr(T > t) = 0.8412			Pr(T > t) = 0.5794	

Variable piped_water is balanced in block 2

Testing the balancing property for variable flush_toilet in block 2

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	89	.5620251	.0218353	.2059939	.518632	.6054182
1	16	.5495923	.0499146	.1996582	.4432019	.6559827
combined	105	.5601306	.0199225	.2041444	.5206236	.5996376
diff		.0124328	.0556891		-.0980134	.122879

diff = mean(0) - mean(1) t = 0.2233
Ho: diff = 0 degrees of freedom = 103

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.5881 Pr(|T| > |t|) = 0.8238 Pr(T > t) = 0.4119

Variable flush_toilet is balanced in block 2

Testing the balancing property for variable hindu in block 2

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	89	.7276658	.0242104	.2284	.6795528	.7757788
1	16	.749949	.0641282	.2565126	.6132631	.8866349
combined	105	.7310613	.0226139	.2317237	.6862171	.7759056
diff		-.0222832	.0631897		-.147605	.1030387

diff = mean(0) - mean(1) t = -0.3526
Ho: diff = 0 degrees of freedom = 103

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.3625 Pr(|T| > |t|) = 0.7251 Pr(T > t) = 0.6375

Variable hindu is balanced in block 2

Testing the balancing property for variable SC_ST in block 2

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	89	.3257992	.0238067	.2245919	.2784884	.37311
1	16	.335428	.0508754	.2035015	.2269897	.4438663
combined	105	.3272664	.0215288	.2206046	.284574	.3699589
diff		-.0096288	.0601864		-.1289943	.1097368

diff = mean(0) - mean(1) t = -0.1600
Ho: diff = 0 degrees of freedom = 103

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.4366 Pr(|T| > |t|) = 0.8732 Pr(T > t) = 0.5634

Variable SC_ST is balanced in block 2

Testing the balancing property for variable pucca_house in block 2

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	89	.5846181	.0257578	.2429984	.53343	.6358063
1	16	.4952142	.0604777	.2419109	.366309	.6241194
combined	105	.5709947	.0237941	.243817	.5238101	.6181793
diff		.0894039	.0659418		-.041376	.2201839

diff = mean(0) - mean(1) t = 1.3558
Ho: diff = 0 degrees of freedom = 103

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.9109 Pr(|T| > |t|) = 0.1781 Pr(T > t) = 0.0891

Variable pucca_house is balanced in block 2

Testing the balancing property for variable rural in block 2

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	89	.7063696	.0188992	.178295	.6688113	.7439279
1	16	.7229321	.0505521	.2022084	.6151828	.8306813
combined	105	.7088934	.0176828	.1811949	.6738277	.7439591
diff		-.0165625	.0494137		-.1145628	.0814379

diff = mean(0) - mean(1) t = -0.3352
Ho: diff = 0 degrees of freedom = 103

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.3691 Pr(|T| > |t|) = 0.7382 Pr(T > t) = 0.6309

Variable rural is balanced in block 2

Testing the balancing property in block 3

Observations in block 3
133

Controls in block 3
92

Treated in block 3
41

Testing the balancing property for variable piped_water in block 3

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	92	.2318092	.0253525	.2431722	.1814497	.2821687
1	41	.2559259	.0383682	.2456761	.1783809	.3334708
combined	133	.2392437	.0210942	.2432707	.1975172	.2809702
diff		-.0241167	.045806		-.1147318	.0664985

diff = mean(0) - mean(1) t = -0.5265
Ho: diff = 0 degrees of freedom = 131

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
Pr(T < t) = 0.2997	Pr(T > t) = 0.5994	Pr(T > t) = 0.7003

Variable piped_water is balanced in block 3

Testing the balancing property for variable flush_toilet in block 3

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	92	.4374849	.0213107	.2044053	.3951538	.4798161
1	41	.4297009	.0329149	.2107583	.3631774	.4962244
combined	133	.4350853	.017829	.2056143	.3998178	.4703529
diff		.0077841	.0387505		-.0688738	.0844419
diff = mean(0) - mean(1)				t =	0.2009	
Ho: diff = 0				degrees of freedom =	131	

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
Pr(T < t) = 0.5794	Pr(T > t) = 0.8411	Pr(T > t) = 0.4206

Variable flush_toilet is balanced in block 3

Testing the balancing property for variable hindu in block 3

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	92	.837911	.0129256	.1239779	.8122359	.8635861
1	41	.8027455	.0271577	.1738943	.7478577	.8576333
combined	133	.8270705	.0122706	.1415112	.8027981	.8513429
diff		.0351655	.0264961		-.0172501	.0875811
diff = mean(0) - mean(1)				t =	1.3272	
Ho: diff = 0				degrees of freedom =	131	

Ha: diff < 0	Ha: diff != 0	Ha: diff > 0
Pr(T < t) = 0.9066	Pr(T > t) = 0.1868	Pr(T > t) = 0.0934

Variable hindu is balanced in block 3

Testing the balancing property for variable SC_ST in block 3

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	92	.2941967	.0139955	.13424	.2663964	.321997
1	41	.3687417	.0300537	.1924373	.308001	.4294824
combined	133	.3171768	.013666	.1576037	.2901441	.3442094
diff		-.0745449	.0289842		-.1318825	-.0172073
diff = mean(0) - mean(1)				t = -2.5719		
Ho: diff = 0				degrees of freedom = 131		
Ha: diff < 0		Ha: diff != 0		Ha: diff > 0		
Pr(T < t) = 0.0056		Pr(T > t) = 0.0112		Pr(T > t) = 0.9944		

Variable SC_ST is balanced in block 3

Testing the balancing property for variable pucca_house in block 3

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	92	.464375	.0267963	.2570207	.4111475	.5176025
1	41	.5334251	.042176	.2700585	.4481841	.618666
combined	133	.4856611	.0227219	.262042	.4407149	.5306073
diff		-.0690501	.0490228		-.1660289	.0279287
diff = mean(0) - mean(1)				t = -1.4085		
Ho: diff = 0				degrees of freedom = 131		
Ha: diff < 0		Ha: diff != 0		Ha: diff > 0		
Pr(T < t) = 0.0807		Pr(T > t) = 0.1613		Pr(T > t) = 0.9193		

Variable pucca_house is balanced in block 3

Testing the balancing property for variable rural in block 3

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	92	.7345595	.0229527	.2201542	.6889669	.7801522
1	41	.73494	.0324152	.2075586	.6694264	.8004536
combined	133	.7346768	.0186918	.2155648	.6977025	.7716511
diff		-.0003804	.0406321		-.0807604	.0799995

diff = mean(0) - mean(1) t = -0.0094
Ho: diff = 0 degrees of freedom = 131

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.4963 Pr(|T| > |t|) = 0.9925 Pr(T > t) = 0.5037

Variable rural is balanced in block 3

Testing the balancing property in block 4

Observations in block 4
162

Controls in block 4
78

Treated in block 4
84

Testing the balancing property for variable piped_water in block 4

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	78	.2453588	.0238329	.2104868	.1979014	.2928162
1	84	.1813254	.0176653	.1619048	.1461899	.2164609
combined	162	.2121563	.0148517	.1890313	.182827	.2414856
diff		.0640334	.0293837		.0060036	.1220632

```

diff = mean(0) - mean(1)
Ho: diff = 0
t = 2.1792
degrees of freedom = 160

```

```

Ha: diff < 0
Pr(T < t) = 0.9846
Ha: diff != 0
Pr(|T| > |t|) = 0.0308
Ha: diff > 0
Pr(T > t) = 0.0154

```

Variable piped_water is balanced in block 4

Testing the balancing property for variable flush_toilet in block 4

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	78	.4201404	.0235387	.2078881	.3732689	.4670119
1	84	.3776088	.0231528	.2121991	.3315588	.4236588
combined	162	.398087	.0165434	.2105637	.3654168	.4307571
diff		.0425316	.0330423		-.0227236	.1077869

```

diff = mean(0) - mean(1)
Ho: diff = 0
t = 1.2872
degrees of freedom = 160

```

```

Ha: diff < 0
Pr(T < t) = 0.9001
Ha: diff != 0
Pr(|T| > |t|) = 0.1999
Ha: diff > 0
Pr(T > t) = 0.0999

```

Variable flush_toilet is balanced in block 4

Testing the balancing property for variable hindu in block 4

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	78	.8940648	.0082215	.0726102	.8776937	.9104358
1	84	.9135683	.0070846	.0649317	.8994772	.9276593
combined	162	.9041777	.005438	.0692141	.8934387	.9149166
diff		-.0195035	.0108079		-.0408481	.0018411

```

diff = mean(0) - mean(1)
Ho: diff = 0
t = -1.8046
degrees of freedom = 160

```

```

Ha: diff < 0
Ha: diff != 0
Ha: diff > 0

```

$$\Pr(T > t) = 0.9635$$

Variable hindu is balanced in block 4

Testing the balancing property for variable SC_ST in block 4

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	78	.4062569	.0188821	.166762	.3686579	.4438559
1	84	.3591096	.0142482	.1305873	.3307705	.3874488
combined	162	.3818102	.0118243	.150499	.3584594	.4051609
diff		.0471473	.0234443		.0008472	.0934474

[illegible]
$$H_a: \text{diff} > 0$$
$$\Pr(T > t) = 0.0230$$

Variable SC_ST is balanced in block 4

Testing the balancing property for variable `pucca_house` in block 4

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	78	.493835	.0258227	.2280603	.4424154	.5452547
1	84	.4291512	.0276424	.2533469	.3741716	.4841309
combined	162	.4602953	.0190864	.2429302	.4226033	.4979873
diff		.0646838	.0379754		-.010314	.1396815

diff = mean(0) - mean(1)
Ho: diff = 0

t = 1.7033
degrees of freedom = 160

$$H_a: \text{diff} > 0$$
$$\Pr(T > t) = 0.0452$$

Variable pucca house is balanced in block 4

Testing the balancing property for variable rural in block 4

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	78	.6728838	.0271699	.2399584	.6187816	.7269861
1	84	.6995755	.0261006	.2392158	.6476625	.7514885
combined	162	.6867239	.0187935	.2392026	.6496103	.7238376
diff		-.0266917	.0376712		-.1010885	.0477052

diff = mean(0) - mean(1) t = -0.7085
Ho: diff = 0 degrees of freedom = 160

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.2398 Pr(|T| > |t|) = 0.4796 Pr(T > t) = 0.7602

Variable rural is balanced in block 4

Testing the balancing property in block 5

Observations in block 5

26

Controls in block 5

7

Treated in block 5

19

Testing the balancing property for variable piped_water in block 5

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	7	.1170412	.0331214	.0876309	.0359961	.1980863
1	19	.1063723	.0183092	.0798078	.0679062	.1448385
combined	26	.1092447	.0157531	.0803255	.0768006	.1416889

```

-----+-----
diff |          .0106689    .0361821          -.0640072    .085345
-----+-----
diff = mean(0) - mean(1)                                t =    0.2949
Ho: diff = 0                                           degrees of freedom =    24

Ha: diff < 0                Ha: diff != 0                Ha: diff > 0
Pr(T < t) = 0.6147          Pr(|T| > |t|) = 0.7706          Pr(T > t) = 0.3853

Variable piped_water is  balanced  in block 5

```

Testing the balancing property for variable flush_toilet in block 5

Two-sample t test with equal variances

```

-----+-----
Group |      Obs      Mean   Std. Err.   Std. Dev.   [95% Conf. Interval]
-----+-----
0 |         7   .2813538   .0595783   .1576294   .1355709   .4271367
1 |        19   .2417379   .0373515   .1628113   .1632654   .3202105
-----+-----
combined |        26   .2524038   .0312372   .1592791   .1880695   .316738
-----+-----
diff |          .0396159   .0714197          -.1077871   .1870188
-----+-----
diff = mean(0) - mean(1)                                t =    0.5547
Ho: diff = 0                                           degrees of freedom =    24

Ha: diff < 0                Ha: diff != 0                Ha: diff > 0
Pr(T < t) = 0.7079          Pr(|T| > |t|) = 0.5842          Pr(T > t) = 0.2921

```

Variable flush_toilet is balanced in block 5

Testing the balancing property for variable hindu in block 5

Two-sample t test with equal variances

```

-----+-----
Group |      Obs      Mean   Std. Err.   Std. Dev.   [95% Conf. Interval]
-----+-----
0 |         7   .9328772   .0141253   .037372   .8983139   .9674405
1 |        19   .9540338   .0053288   .0232276   .9428385   .9652292
-----+-----
combined |        26   .9483378   .0055996   .0285525   .9368052   .9598704
-----+-----
diff |          -.0211566   .0121392          -.0462108   .0038975
-----+-----
diff = mean(0) - mean(1)                                t =   -1.7428

```

Ho: diff = 0 degrees of freedom = 24

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.0471 Pr(|T| > |t|) = 0.0942 Pr(T > t) = 0.9529

Variable hindu is balanced in block 5

Testing the balancing property for variable SC_ST in block 5

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	7	.6950111	.0528035	.1397049	.5658056	.8242165
1	19	.6822113	.0393824	.1716637	.599472	.7649505
combined	26	.6856574	.0315832	.1610434	.6206105	.7507042
diff		.0127998	.0726252		-.1370913	.1626909

diff = mean(0) - mean(1) t = 0.1762
Ho: diff = 0 degrees of freedom = 24

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.5692 Pr(|T| > |t|) = 0.8616 Pr(T > t) = 0.4308

Variable SC_ST is balanced in block 5

Testing the balancing property for variable pucca_house in block 5

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	7	.3457417	.0803964	.212709	.1490187	.5424647
1	19	.3568104	.0453966	.1978794	.2614356	.4521852
combined	26	.3538303	.0387677	.1976775	.2739867	.433674
diff		-.0110687	.089175		-.1951168	.1729795

diff = mean(0) - mean(1) t = -0.1241
Ho: diff = 0 degrees of freedom = 24

Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
Pr(T < t) = 0.4511 Pr(|T| > |t|) = 0.9023 Pr(T > t) = 0.5489

Variable pucca_house is balanced in block 5

Testing the balancing property for variable rural in block 5

Two-sample t test with equal variances

Group	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
0	7	.7689768	.0633255	.1675434	.614025	.9239286
1	19	.7878045	.0483651	.2108188	.6861931	.8894159
combined	26	.7827355	.0386352	.1970015	.7031649	.8623061
diff		-.0188277	.0888155		-.2021338	.1644784
diff = mean(0) - mean(1)				t = -0.2120		
Ho: diff = 0				degrees of freedom = 24		
Ha: diff < 0		Ha: diff != 0		Ha: diff > 0		
Pr(T < t) = 0.4170		Pr(T > t) = 0.8339		Pr(T > t) = 0.5830		

Variable rural is balanced in block 5

Testing the balancing property in block 6

Observations in block 6
0

Block 6 does not have observations
Move to next block

Controls in block 7
0

Block 7 does not have controls
I move to next block

The balancing property is satisfied

This table shows the inferior bound, the number of treated
and the number of controls for each block

Inferior of block of pscore	(mean) treatment_region_stri ct		Total
	0	1	
.0497575	93	23	116
.2	89	16	105
.3	92	41	133
.4	78	84	162
.6	7	19	26
Total	359	183	542

Note: the common support option has been selected

End of the algorithm to estimate the pscore
