### HW 2

# Exercise 2

	Y	X1
Y	1.0000	
X1	0.0227	1.0000

The correlation is limited from -1 to 1, so only thing we can tell is that there is a strong positive correlation between these two variables, which match the fact that the coef on X1 is positive.

OLS and bootstrape

Variable	Х_Ү	boot49	boot499
X1	.43835034	.43835034	.43835034
	.54743723	.58697341	.56666169
X2	-1.0103868	-1.0103868	-1.0103868
	.08909115	.10057932	.09150773
Х3	.37314107	.37314107	.37314107
	.67303555	.74072512	.62863732
_cons	22.541928	22.541928	22.541928
	1.2817391	1.4386829	1.3610506

legend: b/se

# Exercise 3&4&5

Linear, Probit, Logit

Variable	linear_	probit_	probit_m	probit_m~a	logit_	logit_md~a
_ X1	.01874188					
	.02669155					
X2	03834067					
	.00434384					
Х3	.04659131					
	.03281539					
_cons	.67081067					
	.06249412					
Y dum						
_ X1		.04497207	.04497207	.04497207	.07525617	.07525617
		.07120618	.07120618	.07120618	.11528701	.11528701
X2		10744515	10744515	10744515	17363591	17363591
		.01280879	.01280879	.01280879	.02137843	.02137843
Х3		.12439279	.12439279	.12439279	.20079145	.20079145
		.08770008	.08770008	.08770008	.14189878	.14189878
_cons		.48680797	.48680797	.48680797	.77878889	.77878889
		.1690792	.1690792	.1690792	.27359913	.27359913

legend: b/se

The coefficient varies largely across these three methods, but the sign on the coefficients are the same, and all X3 coefs are not significant. For Probit and logit, without calculating the marginal effect, we can only interpret the sign. Higher X2 can decrease the probability of ydum = 1, which means higher X2 is

likely to generate Y below mean. Higher X1 and X3 can increase the probability of ydum = 1, which means that higher X1 and X3 is likely to generate Y above mean. This match the sign in the data generating process. For linear probability model, X1: one unit increase in X1 likely to increase the likelihood of ydum = 1 by 1.9%; X2: one unit increase in X2 likely to decrease the likelihood of ydum = 1 by 4.6%.

**HW3**Exercise 1

Variable	Obs	Mean	Std. Dev.	Min	Max
ppk_stk	4,470	.5184362	.1505174	.19	.67
pbb_stk	4,470	.5432103	.1203319	.19	1.01
pfl_stk	4,470	1.01502	.0428952	.95	1.16
phse_stk	4,470	.4371476	.1188312	.19	.64
pgen_stk	4,470	.3452819	.0351661	.25	.55
pimp_stk	4,470	.7807785	.1146461	.33	2.3
pss_tub	4,470	.8250895	.0612116	.5	.98
ppk_tub	4,470	1.077409	.0297261	.98	1.24
pfl_tub	4,470	1.189376	.0140545	.69	1.47
phse_tub	4,470	.5686734	.072455	.33	1.27
choice	Freq.	Percent	Cum.		
1	1,766	39.51	39.51		
2	699	15.64	55.15		
3	243	5.44	60.58		
4	593	13.27	73.85		
5	315	7.05	80.89		
6	74	1.66	82.55		
7	319	7.14	89.69		
8	203	4.54	94.23		
9	225	5.03	99.26		
10	33	0.74	100.00		
Total	4,470	100.00			
choice_type	Freq.	Percent	Cum.		
stk tub	3 <b>,</b> 690 780	82.55 17.45	82.55 100.00		
		17.43			
Total	4,470	100.00			

choice_bran d	Freq.	Percent	Cum.
pbb	699	15.64	15.64
pfl	468	10.47	26.11
pgen	315	7.05	33.15
phse	626	14.00	47.16
pimp	74	1.66	48.81
ppk	1,969	44.05	92.86
pss	319	7.14	100.00
Total	4,470	100.00	

Exercise 2&3&4

### Conditional Logit

COIN	arcronar b	ogic			variable	dp/dx	Std. Err.	_
					Price			_
	Variable	c logit	m logit	mix logit	1 2	-1.62007 .38092	.045076	-3
	Vallabic		m_rogrc	MIN_10910	3	.156526	010709	1
					5	.359811	.016943	1
alt					6 7	.04471	.005301	,
	Price	-6.6565793		-6.6596692	8	.12222		1
		.17427926		.17476978	9 10	.14162 .016959	.009996	1
2					Pr(choice = 2	selected	i) = .13669	9617
2	income		00308874	00425993	variable	dp/dx	Std. Err.	_
	THEOME				Price			-
			.00311397	.00343921	1	.38092	.016377	2
	_cons	95430683	84532415	84067337	2	785545 .051111	.030158	-2
		.05004624	.09313545	.10384458	4 5	.117491	.006448	1
					6	.014599		
3					7 8	.063631	.004253	1
	income		.01458623	.01434397	9	.046244	.003507	1
			.00382546	.00392209		.003330	.000,000	
	cons	1.2969683	-2.3998576	.88860693	Pr(choice = 3	1 selected	i) = .05617	7075
		.10865147	.13358016	.15945855	variable	dp/dx	Std. Err.	
		.10865147	.13358016	.13943833		up/ux	Std. Eff.	-
					Price 1	.156526	.010709	1
4					2 3	.051111	.003765	1
	income		.00405043	.00409985	4	048279	003651	1
			.00309258	.00320421	5	.027162	.002319	1
	cons	-1.7173324	-1.2013265	-1.8284916	7	.026147	.002223	1
		.05415816	.0971021	.10321797	8 9	.016399	.001757	1
		.03413010	.0371021	.10321757	10	.002276	.000422	
5					Pr(choice = 4	selected	i) = .12912	2093
	income		00125359	00118286	variable	dp/dx	Std. Err.	
			.00420238	.00429708	Price			_
	cons	-2.9040048	-1.6905817	-2.8734104	1 2	.359811	.016943	2
					3	.048279	.003651	1
		.07146052	.12699518	.13475726	4 5	748524 .062439	.031316	-2 1
					6	.01379	.00431	
6					8	.037698	.003025	1
	income		.03061202	.02980895	9	.043681	.003386	1
			.00467399	.00472672				
	cons	-1.5153112	-4.1397672	-2.4571185	Pr(choice = 5	selected	1) = .07264	1529
		.12623034	.21098899	.21542599	variable	dp/dx	Std. Err.	_
					Price			
7					1	.202435	.012376	1
/			00693258	00924559	2 3 4	.066102 .027162 .062439	.004433 .002319 .00431	1
	income				4	.062439	.00431	1
			.0044161	.00459348	5 6	44844 .007759	.001001	-1
	_cons	.25176838	-1.5310415	.49686917	7 8	.033816	.002681	1
		.07916402	.12804344	.14248236	9	.024576	.002144	1
_						1		-
8			.02288616	.02199646	Pr(choice = 6			
	income				variable	dp/dx	Std. Err.	_
			.00362167	.00382029	Price	.04471	.005301	
	_cons	1.4648684	-2.8483523	.80306	2	014599		
		.1180467	.13938482	.17091994	4	.005999	.000796	
					5	.007759 105088	.001001	_
9					6 7 8	.007469	000963	
	income		.01774297	.01699109	9	.005428	.000634	
			.0037623	.0039155	10	.00065	.000136	
	cons	2.3575051	-2.5755973	1.8641255	Pr(choice = 7		1) = .06992	2027
		.13377396	.13614002	.1799469		·		
		.13377396	.13614002	.1799409	variable	dp/dx	Std. Err.	
10					Price 1	.194866	.011804	1
-	income		.01079092	.00875958	2 3	.063631	.004253	1
	THOUME		.01013005	.01030074	4 5	.060104	.004135	1
		2 0005005			6	.007469	.000963	Ĵ
	_cons	-3.8965935	-4.2822699	-4.1423856	7 8	432938 .020416	.024519	-1 1
		.17741899	.34579197	.35065634	9 10	.023657	.002057	1
		1		legend: b/se				
				rederia: n\se	Pr(choice = 8	dp/dx	std. Err.	1975
					Price	up/uX	Ju. hrr.	-
					1 2	.12222	.008972	1

variable	= 1 1 :		Std F		p++ -	, ,		х	Pr(choice ·	dp/dx	Std. Err.	z	2>   z	[ 95%	c.r. ]	
variable Price	+	dp/dx	Std. Err.	z	P> z	[ 95% (	2.1. ]	Х	Price			-95.00				
	1 -:	1.62007	.045076	-35.94 23.26	0.000	-1.70841 .348821	-1.53172 .413019	.51844		1 -1.62411 2 .385102 3 .156859	.045171 .016615 .010841	-35.96 23.18 14.47	0.000	-1.71264 .352538 .135611	-1.53558 .417666 .178107	.5
		.156526	.010709	14.62	0.000	.135537	.177515	1.015		4 .366243 5 .20521 6 .040343	.017247 .012577 .00515	21.24	0.000	.33244 .18056 .030249	.400045 .229859 .050437	.4:
	5	.359811	.016943	21.24	0.000	.326602	.393019	.43715		6 .040343 7 .195568	.00515	7.83	0.000	.030249	.050437	-71
	6	.04471	.005301	8.43 16.51	0.000	.034319	.0551	.78078 .82509		8 .117449	008947	13 13	0.000	.099913	.134986	1.0
	8	.12222	.008972	13.62	0.000	.104636	.139804	1.0774		9 .140182 10 .017157	.010078	13.91 5.68	0.000	.12043	.159935 .023082	1.5
	10	.016959	.002973	5.71	0.000	.011133	.022785	.56867	casevars	me000958	.000546	-1.75	0.079	002028	.000113	27
r(choice	= 2 1 :	selected)	= .13669	617					Pr(choice	= 2 1 selected)	13711	827				
riable	Т	dp/dx	Std. Err.	z	P> z	[ 95%	2.I. ]	Х	variable	dp/dx	Std. Err.	z	20   z	[ 95%	c.r. ]	
ice	_	38092	.016377	23.26	0.000	.348821	.413019	.51844	Price	1 .385102	.016615	23.18	0.000	.352538	.417666	- 5
	2 -	.785545	.030158	-26.05 13.57	0.000	844654 .043731	726436	.54321		2787951 3 .051001 4 .119079	.030373	-25.94 13.44 18.18	0.000	847481 .043561 .106241	728421 .05844 .131918	1
	4	.117491	.006448	18.22	0.000	.104853	.130129	.43715		6 066221	0.044.91	14.86	0.000	057010	075533	- 1
	5	.066102	.004433	14.91	0.000	.057414	.07479	.34528		6 .013117 7 .063586 8 .038187	.001716 .004295 .003113	14.81	0.000	.009754 .055169 .032086	.01648 .072004 .044288	
	7	.063631	.004253	14.96	0.000	.055295	.071966	.82509 1.0774		9 .045579	.003517	12.96	0.000	.032080	.052472	1.
	9	.046244	.003145	12.69 13.18 5.62	0.000	.03937	.053118	1.1894	CASEVAIS							
	10	.005538	.000986	5.62	0.000	.003605	.007471	.56867	incor	me000896	.000368	-2.43	0.015	001617	000174	27
r(choice	= 3 1 :								Pr(choice ·	= 3 1 selected)		072		[ 95%		
riable rice		dp/dx	Std. Err.	z	P> z	[ 95% (	2.1. ]	Х	Price		Std. Err.		P>   z			
1100	1 2	.156526 .051111	.010709	14.62 13.57	0.000	.135537	.177515	.51844		1 .156859 2 .051001 3 =.351174 4 .048503	.010841 .003796 .022984 .003699	14.47 13.44 =15.28 13.11	0.000 0.000 0.000	.135611 .043561 396222 .041254	.178107 .05844 =.306125 .055753	- 5 - 5 - 4
	3 -	.352903	.02284	-15.45 13.22	0.000	397668 .041124	308137	1.015								
	5	.027162	.002319	11.71	0.000	.022618	.031707	.34528		6 .005343 7 .0259	.000755	7.08	0.000	.003863	.006822	-7
	7	.026147	.002223	11.76	0.000	.02179	.030504	.82509		8 .015554 9 .018565	.001515	10.26 10.64 5.36	0.000	.012584	.018525	1.
	9	.016399 .019002	.001554	10.56	0.000	.013354	.019444	1.0774		10 .002272	.001745	5.36	0.000	.001442	.003102	- 5
	10	.002276	.000422	5.40	0.000	.001449	.003102	.56867	casevars	.000674	.000189	3.56	0.000	.000303	.001045	27
r(choice	= 4 1:									= 4 1 selected)	13040	323		1 959		
ariable		dp/dx	Std. Err.	z	P> z	[ 95% (	2.1. ]	Х	variable Price			z	P> z			
Price	1	.359811	.016943	21.24	0.000	.326602	.393019	.51844		1 .366243 2 .119079	.017247	21.24 18.18	0.000	.33244	.400045	- 5
	3	.117491	.006448	18.22	0.000	.104853	.130129	1.015		3 .048503 4 = .755195	.003699	13.11	0.000	.041254 817091 .054851	.055753	-
	5	.748524	.031316	-23.90 14.49	0.000	809901 .053992	687146 .070886	.43715		4 = .755195 5 .063454 6 .012475 7 .060472	.03158 .004389 .001645 .004196	-23.91 14.46 7.58 14.41	0.000 0.000 0.000	.054851 .00925 .052248	.072057 .0157	- 3
	7	.01379	.001698	8.12 14.54	0.000	.010462	.017118	.78078 .82509		7 .060472 8 .036317 9 .043346	.003007	14.41 12.08 12.71	0.000	.052248	.068696 .042211 .050033	1
	9	.037698	.003025	12.46	0.000	.031768	.043627	1.0774		10 .005305	.003412	5.58	0.000	.00344	.00717	- 1
	10	.005231	.000933	5.60	0.000	.003402	.00706	.56867	casevars incom	me .000238	.000326	0.73	0.464	0004	.000876	2
r(choice	= 5 1:	selected)	= .07264	529					Pr(choice	= 5 1 selected)	07306	635				
ariable		dp/dx	Std. Err.	z	P> z	[ 95% (	2.1. ]	х	variable		Std. Err.	z	Polzi	[ 95%	c.r. ]	_
rice	,	.202435	.012376	16.36	0.000	.178178	.226691	.51844	Price	1 .20521	.012577	16.32	0.000	.18056	.229859	. 5
	2	.066102	.004433	14.91	0.000	.057414	.07479	.54321		2 .066721 3 .027177	.004491	14.86	0.000	.057919	.229859 .075523 .03176	.5
	4	.062439	.002319	11.71	0.000	.022618	.031707	1.015		4 .063454	.004389	14.46	0.000	501565	.072057	.4
	6	.007759	.025561	-17.54 7.75	0.000	498539 .005796	398341 .009721	.34528 .78078		6 .00699 7 .033883 8 .020349	.000961 .002708 .001872	12.51 10.87	0.000	.005106 .028576 .01668	.039191	.7
		.033816	.002681	12.61 11.16	0.000	.028561	.039071	.82509 1.0774		9 .024287 10 .002973	.002147	11.31	0.000	.020079	.028496	1.
	9	.024576	.002144	11.46	0.000	.020374	.028778	1.1894	CASSVAIS	me =.000252	.000272	-0.93	0.354	000786	.000282	27
r(choice	- 611	soloct	- 0100	447					incor				U.354	000786	.000282	27
rr(cnoice :									Pr(choice :	= 6 1 selected)	01436	dt.				
		dp/dx	Std. Err.	z	P> z	[ 95% (	2.I. ]	х	variable	dp/dx	Std. Err.		20   z	95%	c.r. ]	
Price	+								variable Price			7.83				.5
	1 2	.04471	.005301	8.43 8.20	0.000	.034319	.0551	.51844		1 .040343	.00515	7.83 7.64 7.08	0.000	.030249	.050437	.5
	3 4	.04471 .014599 .005999 .01379	.005301 .001779 .000796	8.43 8.20 7.53 8.12	0.000 0.000 0.000 0.000	.034319 .011112 .004438	.0551 .018087 .00756	.51844 .54321 1.015 .43715		1 .040343 2 .013117 3 .005343 4 .012475 5 .00699	.00515 .001716 .000755 .001645 .000961	7.64 7.08 7.58 7.27	0.000 0.000 0.000 0.000 0.000	.030249 .009754 .003863 .00925 .005106	.050437 .01648 .006822 .0157 .008873	.5 1 .4
	3 4 5	.04471 .014599 .005999 .01379	.005301 .001779 .000796 .001698	8.43 8.20 7.53 8.12 7.75	0.000 0.000 0.000 0.000 0.000	.034319 .011112 .004438 .010462	.0551 .018087 .00756 .017118	.51844 .54321 1.015 .43715 .34528		1 .040343	.00515 .001716 .000755 .001645 .000961 .011858	7.64 7.08 7.58 7.27 -7.95 7.27	0.000 0.000 0.000 0.000 0.000 0.000	.030249 .009754 .003863 .00925 .005106 =.117528	.050437 .01648 .006822 .0157 .008873 071047	.5 1 .4 .3
	3 4 5 6 -	.04471 .014599 .005999 .01379 .007759 .105088	.005301 .001779 .000796 .001698 .001001 .012245	8.43 8.20 7.53 8.12 7.75 -8.58 7.76	0.000 0.000 0.000 0.000 0.000 0.000	.034319 .011112 .004438 .010462 .005796 129087 .005582	.0551 .018087 .00756 .017118 .009721 081089	.51844 .54321 1.015 .43715 .34528 .78078 .82509	Price	1 .040343 2 .013117 3 .005343 4 .012475 5 .00699 6 -094288 7 .006661 8 .004	.00515 .001716 .000755 .001645 .000961 .011858 .000917	7.64 7.08 7.58 7.27 -7.95 7.27 6.90	0.000 0.000 0.000 0.000 0.000 0.000	.030249 .009754 .003863 .00925 .005106 =.117528 .004865	.050437 .01648 .006822 .0157 .008873 =.071047 .008458	.5 1 .4 .3 .7
Price	3 4 5 6 - 7 8	.04471 .014599 .005999 .01379 .007759 .105088 .007469 .004684	.005301 .001779 .000796 .001698 .001001 .012245 .000963 .000634	8.43 8.20 7.53 8.12 7.75 -8.58 7.76 7.39 7.47	0.000 0.000 0.000 0.000 0.000 0.000 0.000	.034319 .011112 .004438 .010462 .005796 129087 .005582 .003441 .004005	.0551 .018087 .00756 .017118 .009721 -081089 .009355 .005927 .006851	.51844 .54321 1.015 .43715 .34528 .78078 .82509 1.0774 1.1894	Price	1 .040343 2 .013117 3 .005343 4 .012475 5 .00699 6094288 7 .00661 8 .004	.00515 .001716 .000755 .001645 .000961 .011858	7.64 7.08 7.58 7.27 -7.95 7.27	0.000 0.000 0.000 0.000 0.000 0.000	.030249 .009754 .003863 .00925 .005106 =.117528	.050437 .01648 .006822 .0157 .008873 071047	.5 1 .4 .3
rice	3 4 5 6 - 7 8 9	.04471 .014599 .005999 .01379 .007759 .105088 .007469 .004684 .005428	.005301 .001779 .000796 .001698 .001001 .012245 .000963 .000634 .000726	8.43 8.20 7.53 8.12 7.75 -8.58 7.76 7.39 7.47 4.78	0.000 0.000 0.000 0.000 0.000 0.000 0.000	.034319 .011112 .004438 .010462 .005796 129087 .005582	.0551 .018087 .00756 .017118 .009721 081089 .009355 .005927	.51844 .54321 1.015 .43715 .34528 .78078 .82509 1.0774	Price	1 .040343 2 .013117 3 .005343 4 .012475 5 .00699 6 -094288 7 .006661 8 .004	.00515 .001716 .000755 .001645 .000961 .011858 .000917	7.64 7.08 7.58 7.27 -7.95 7.27 6.90	0.000 0.000 0.000 0.000 0.000 0.000	.030249 .009754 .003863 .00925 .005106 =.117528 .004865	.050437 .01648 .006822 .0157 .008873 =.071047 .008458	.5 1 .4 .3 .7
rice	3 4 5 6 - 7 8 9	.04471 .014599 .005999 .01379 .007759 .105088 .007469 .004684 .005428 .00065	.005301 .001779 .000796 .001698 .001001 .012245 .000963 .000634 .000726 .000136	8.43 8.20 7.53 8.12 7.75 -8.58 7.76 7.39 7.47 4.78	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	.034319 .011112 .004438 .010462 .005796 -129087 .005582 .003441 .004005 .000384	.0551 .018087 .00756 .017118 .009721 -081089 .009355 .005927 .006851 .000916	.51844 .54321 1.015 .43715 .34528 .78078 .82509 1.0774 1.1894 .56867	Price  Camevara  incoe  Pr(choice *	1 .040343 2 .013117 3 .005343 4 .015545 5 .00699 6094288 8 .004 8 .004775 10 .000584 	.00515 .001716 .000755 .001645 .000961 .011858 .000917 .00058 .00061 .000126	7.64 7.08 7.58 7.27 -7.95 7.27 6.90 7.01 4.65	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	.030249 .009754 .009754 .003863 .00925 .005106 = .117528 .004865 .002864 .00344 .00334	.050437 .01648 .006822 .0157 .008873 -071047 .008458 .005137 .006109 .000831	.4
Price Pr(choice:	3 4 5 6 - 7 8 9 10	.04471 .014599 .005999 .005999 .007759 .105088 .007469 .004684 .005428 .00065	.005301 .001779 .000796 .001698 .001001 .012245 .000963 .000634 .000726	8.43 8.20 7.53 8.12 7.75 -8.58 7.76 7.39 7.47 4.78	0.000 0.000 0.000 0.000 0.000 0.000 0.000	.034319 .011112 .004438 .010462 .005796 129087 .005582 .003441 .004005	.0551 .018087 .00756 .017118 .009721 -081089 .009355 .005927 .006851 .000916	.51844 .54321 1.015 .43715 .34528 .78078 .82509 1.0774 1.1894	Price  CAMEVATE  incom	1 .040343 2 .013117 3 .005343 4 .012475 5 .00699 6 .094288 7 .006661 8 .004775 10 .000584 mme .000396 = 7[1 selected]	.00515 .001716 .000755 .001645 .000961 .011858 .000917 .00068 .000681 .000685 00065	7.64 7.08 7.58 7.58 7.27 -7.95 7.27 6.90 7.01 4.65 6.13	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	.030249 .009754 .003863 .00925 .005106 .001562 .004665 .00264 .00344 .00338	.050437 .01649 .006822 .0157 .008873 071047 .005137 .005137 .005109 .000831	.5 1 .4 .3 .7 .8 1. .5
Price Pr(choice :	3 4 5 6 7 8 9 10	.04471 .014599 .005999 .01379 .007759 .105088 .007469 .004684 .005428 .00065	.005301 .001779 .000796 .001698 .001001 .012245 .000963 .000634 .000726 .000136 = .06992 Std. Err.	8.43 8.20 7.53 8.12 7.75 -8.58 7.76 7.39 7.47 4.78	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 P> z	.034319 .011112 .004438 .010462 .005796 -129087 .003582 .003441 .004005 .000384	.0551 .018087 .00756 .017118 .009721 -081089 .009325 .009325 .009365	.51844 .54321 1.015 .43715 .34528 .78078 .82509 1.0774 1.1894 .56867	Price  casevars incor  Pr(choice - variable	1 .040343 2 .013117 3 .005343 4 .012475 5 .00699 6 .094288 7 .006661 8 .004 9 .004775 10.00584 dp/dx 1 .195568 2 .063586	.00515 .001716 .000755 .001645 .000961 .011858 .000917 .000681 .000126 .000685 = .06963 Std. Err.	7.64 7.08 7.58 7.27 -7.95 7.27 -6.90 7.01 4.65 6.13	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	.030249 .009754 .003863 .00925 .005106 -117528 .004864 .00344 .00348 .000269	.050437 .01649 .006822 .0157 .008873 071047 .008458 .005137 .006109 .000831 .000522	.50
Price Pr(choice:	3 4 5 6 7 8 9 10 = 7   1 :	.04471 .014399 .005399 .01379 .007759 .105088 .007469 .004684 .005428 .00065 selected) dp/dx	.005301 .001779 .000796 .001698 .001001 .012245 .000963 .000634 .000136 = .06992 Std. Err.	8.43 8.20 7.53 8.12 7.75 -8.58 7.76 7.39 7.47 4.78	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	.034319 .011112 .004438 .010462 .005796 129087 .005582 .003441 .004005 .000384	.0551 .018087 .00756 .007718 .009721 -081089 .009325 .005927 .005927 .005927 .006851 .000916	.51844 .54321 1.015 .43715 .34528 .82509 1.0774 1.1894 .56867	Price  casevars incor  Pr(choice - variable	1 .040343 2 .013117 3 .005343 4 .012475 5 .006991 6 .09428 7 .006661 0 .004775 10 .000584  mme .000396  = 7 1 melected) dp/dx 1 .195568 2 .043568 2 .045568 3 .0259	.00515 .001716 .000755 .001645 .000961 .011858 .000917 .00058 .000681 .000126 .000065 = .06963 Std. Err.	7.64 7.08 7.58 7.27 7.95 7.27 6.90 7.01 4.65 6.13 319 x 16.33 14.81 11.62 14.41	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	.030249 .009754 .003863 .00925 .005106 .002865 .002865 .002864 .00344 .000338	.050437 .01648 .006822 .0157 .008873 071047 .008458 .005137 .006109 .006537 .006522	.50
Price Pr(choice:	3 4 5 6 7 8 9 10 = 7   1 : 2 3 4 5 5	.04471 .014599 .005599 .01379 .007759 .105088 .007469 .004684 .00065 selected) dp/dx .194866 .063631 .026147 .060104 .033816	.005301 .001779 .000796 .001698 .001001 .012245 .000963 .000634 .000726 .000136 = .06992 Std. Err.	8.43 8.20 7.53 8.12 7.75 -8.58 7.76 7.39 7.47 4.78 927 z	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	.034319 .011112 .004438 .010462 .005796 -129087 .003541 .004005 .000384 .171731 .055295 .02179 .0524	.0551 .018087 .00756 .017118 .009721 -081089 .009321 -005927 .005927 .005927 .006851 .000916	.51844 .54321 1.015 .43715 .34528 .78078 .82509 1.0774 1.1894 .56867	Price  casevars incor  Pr(choice - variable	1 .040343 2 .013117 3 .005343 4 .012475 5 .006991 6 .09428 7 .006661 0 .004775 10 .000584  mme .000396  = 7 1 melected) dp/dx 1 .195568 2 .043568 2 .045568 3 .0259	.00515 .001716 .000755 .001645 .000961 .011858 .000961 .00068 .00068 .0006806963 Std. Err011974 .004295 .002229 .002196 .002708 .002708	7.64 7.08 7.58 7.27 7.95 7.27 6.90 7.01 4.65 6.13 319 2 16.33 14.81 11.62 14.41 12.51	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	.030249 .009754 .003863 .00925 .005106 .002865 .002865 .002864 .00344 .000338	.050437 .01648 .006822 .0157 .008873 071047 .008458 .005137 .006109 .006537 .006522	.50
Price Pr(choice :	3 4 5 6 7 8 9 10 = 7   1 :	.04471 .014599 .005999 .005999 .007759 .007669 .004684 .00065 dp/dx .194866 .063631 .026147 .060104	.005301 .001779 .000796 .001698 .001001 .012245 .000963 .000634 .000726 .000136 = .06992 Std. Err. .011804 .004253 .002223 .002223	8.43 8.20 7.53 8.12 7.75 -8.58 7.76 7.39 7.47 4.78 927 2	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	.034319 .011112 .00462 .005796 -129087 .00582 .003441 .004005 .000384	.0551 .018087 .007086 .017118 .009721 -081089 .009325 .005827 .006851 .000916	.51844 .54321 1.015 .43715 .34528 .82509 1.0774 1.1894 .56867 X	Price  casevars incor  Pr(choice - variable	1 .040343 2 .013177 3 .013177 3 .013177 4 .012475 5 .00669 6 .004288 6 .004 9 .00473 10 .000584 1 .109588 2 .063586 3 .02558 2 .066472 2 .06558 1 .006472 2 .06672 7 .034643 1 .066472 1 .066472 2 .06672 7 .034643 1 .066472	.00515 .001716 .000755 .001645 .000961 .011858 .000961 .00068 .00068006963  Std. Err011974 .004295 .00229 .002708 .002708 .000917 .024732 .00179	7.64 7.08 7.58 7.27 -7.95 7.27 6.90 7.01 4.65 6.13 319 z 16.33 14.81 11.62 14.41 12.51 7.27 -17.44	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	.030249 .009754 .009863 .00925 .005106 .002864 .003486 .003486 .00348 .0	.050437 .01648 .006822 .0157 .008873 .071047 .006109 .005137 .006109 .000522 .00522 .00522 .00222 .003226 .003268 .003	.5.3 .4.3 .5.3 .5.3 .5.3 .5.3 .5.3 .5.3
rice r(choice:	3 4 5 6 - 7 8 9 10 = 7   1 : 2 3 4 5 6 6 7 8	.04471 .014399 .005399 .013799 .01379 .007759 .007688 .007669 .004684 .005428 .00065 selected) dp/dx	.005301 .001779 .000796 .001698 .001001 .002245 .000963 .000634 .000726 .000136 = .06992 Std. Err. .011804 .004253 .002223 .004135 .002681 .000963	8.43 8.20 7.53 8.12 7.75 -8.58 7.76 7.39 7.47 4.78 927 z 16.51 14.96 11.76 14.54 12.61 7.76	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	.034319 .011112 .004438 .010462 .005796 -129087 .005582 .003441 .004005 .000384	.0551 .018087 .00736 .017118 .009721 .081089 .009325 .005927 .006851 .000916 .218.01 .218001 .071966 .030504 .068209 .068209 .038071 .009305	.51844 .54321 1.015 .43715 .34528 .78078 .82509 1.0774 1.1894 .56867 X	Price  CAMPUATA incor  Pr(choice  variable  Price	1 .040343 2 .013117 3 .005341 4 .02041 2 .013117 3 .005341 8 .004 9 .00472 5 .006661 1 .195562 2 .062386 4 .000472 2 .062386 5 .03388 6 .006661 7 .03466	.00515 .001716 .000755 .001645 .000961 .011858 .000961 .000917 .00058 .00065000065000065001974 .004295 .002229 .004196 .002708 .000917 .00475	7.64 7.08 7.58 7.27 -7.95 7.27 6.90 7.01 4.65 6.13 319 z 16.33 14.81 11.62 14.41 12.51 7.27 -17.44	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	.030249 .009754 .003863 .00925 .002864 .00344 .00344 .00338 .000269	.050437 .01648 .006822 .0157 .008873 .071047 .008458 .005139 .000522 .000522 .00052 .000831	2
Price Pr(choice :	3 4 5 6 - 7 8 9 10 = 7   1 : 2 3 4 5 6 7 - 8 9	.04471 .014399 .005399 .01379 .007759 .105088 .007469 .004684 .005428 .00065 selected) dp/dx .194866 .063631 .026147 .060104 .033816 .007469 .432938 .007469	.005301 .001779 .000796 .001698 .001001 .012245 .000963 .000634 .000136 = .06992 Std. Err. .011804 .004253 .00223 .004235 .00223 .004259 .009681 .009681 .009681 .009681	8.43 8.20 7.53 8.12 7.75 -8.58 7.76 7.39 7.47 4.78 927 2 16.51 14.96 11.76 14.54 12.61 7.76	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	.034319 .011112 .004438 .010462 .005796 -129087 .003441 .004005 .000384 .00342 .0024 .00242 .00242 .00242 .00242 .00242 .00242 .00242 .00242 .00242	.0551 .018087 .00756 .017118 .009721 -081089 .009355 .009355 .000916  2.I. ]  .218001 .071966 .030504 .068209 .093057 .068209 .093057 .068209 .093057 .068209 .093057 .068209 .093057 .068209 .093057 .093055 .384882	.51844 .54321 1.015 .43715 .34528 .78078 .82509 1.0774 1.1894 .56867 X .51844 .54321 1.015 .43715 .34528 .78078 .82509 1.0774	Price  CAMPUATA incor  Pr(choice  variable  Price	1 .045343 2 .013117 3 .005343 4 .012475 5 .00669 609428 9 .004775 10 .000664 7 .711 mslacted dp/dx 1 .10556 3 .00569 3 .0259 3 .006661 7 .03586 8 .01593 3 .005661 7 .43148 1 .005661 8 .005661 9 .002661 9 .002661 1 .005661 9 .002661 9 .002661	.00515 .001716 .000755 .001645 .001645 .001645 .001681 .000681 .000126 .00006506963 Std. Err011974 .004295 .002229 .004196 .002206 .002708 .00917 .024732 .00179	7.64 7.08 7.58 7.27 -7.95 7.27 6.90 7.01 4.65 6.13 319 z 16.33 14.81 11.62 14.41 12.51 7.27 -17.44 10.83 11.98	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	.030249 .009754 .003863 .00925 .005106 .117528 .002864 .00344 .000338 .000269 .172099 .055169 .021531 .052248 .028576 .028666 .02866 .02866 .02866 .02866 .02866 .02866 .02866 .02866 .028666 .02866 .02866 .02866 .02866 .02866 .02866 .02866 .02866 .028666 .02866	.050437 .01648 .006822 .0157 .008873 .071047 .006109 .005137 .006109 .000831 .000522	22
Pr(choice   Price	3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10	.04471 .014599 .013799 .01379 .007759 .105088 .007469 .004684 .005428 .00065 dp/dx .194866 .063631 .026147 .060104 .033816 .033816 .007469 .432938 .020416 .020416 .020416	.005301 .001779 .000796 .001698 .001001 .012245 .000963 .000634 .000736 .000136 = .06992 Std. Err. .011804 .004253 .002223 .00223 .002681 .009663 .024519 .002681 .00963 .004253	8.43 8.20 7.53 8.12 7.75 -8.58 7.76 7.39 7.47 4.78 927 z 16.51 14.96 11.76 14.54 12.61 7.76 -17.66	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	.034319 .011112 .004438 .010462 .005796 -129087 .003582 .003441 .004005 .004005 .004005 .004005 .002084	.0551 .018087 .00756 .01718 .009721 .081089 .009325 .005927 .006881 .000916 .01718 .030504 .068209 .030504 .068209 .030504 .088209 .0882000 .0882000 .0882000 .0882000 .0882000 .0882000 .0882000 .0882000 .08	.51844 .54321 1.015 .43713 .34528 .78078 .82509 1.0774 1.1894 .56867 .51844 .54321 1.015 .43715 .34528 .78078 .82509 1.0774	Price  Casevare  incompression  Prichoice  veriable  Price  Casevare  incompression  casevare  casevare  incompression  casevare  caseva	1 .045343 2 .013117 3 .005343 4 .012475 5 .00669 609428 9 .004775 10 .000664 7 .711 mslacted dp/dx 1 .10556 3 .00569 3 .0259 3 .006661 7 .03586 8 .01593 3 .005661 7 .43148 1 .005661 8 .005661 9 .002661 9 .002661 1 .005661 9 .002661 9 .002661	.00515 .001716 .000755 .001645 .001645 .000961 .001685 .00006506963 3td.Err011974 .002295 .002279 .004196 .002798	7.64 7.08 7.58 7.58 7.27 7.27 7.27 7.27 7.27 1.27 1.27 1.4.61 11.62 14.41 11.62 14.41 11.62 14.41 11.52 14.41 11.53 14.51 11.53 11.5	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	.030249 .009754 .003863 .00925 .005106 -117528 .004865 .002864 .000338 .000269	.050437 .01648 .006822 .0157 .008873 .071074 .004459 .00459 .000831 .0008522 .000831 .0008522	.5455555555.
rice r(choice : ariable rice r(choice : ariable	3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10	.04471 .014599 .005999 .01379 .007759 .00769 .004684 .005428 .00065 dp/dx .194866 .063631 .026147 .060104 .033816 .007469 .432938 .002615 .002	.005301 .001779 .000796 .001698 .001001 .012245 .000963 .000634 .000736 .000136 = .06992 Std. Err. .011804 .004253 .002223 .00223 .002681 .009663 .024519 .002681 .00963 .004253	8.43 8.20 7.53 8.12 7.75 -8.58 7.76 7.39 7.47 4.78 927 z 16.51 14.96 11.76 14.54 12.61 7.76 -17.66	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	.034319 .011112 .004438 .010462 .003796 -1129087 .0035441 .004005 .003441 .004005 .00384 .171731 .055219 .021896 .021896 .005882 .028861 .005882 .0058	.0551 .018087 .007756 .017118 .009721 .081089 .0093355 .005927 .006851 .000916 .218001 .071966 .093050 .093050 .003007 .003007 .003007 .003007 .003007 .003007 .003007 .003007 .003007 .003007 .003007 .003007 .003007	.51844 .54321 1.015 .43713 .34528 .78078 .82509 1.0774 1.1894 .56867 .51844 .54321 1.015 .43715 .34528 .78078 .82509 1.0774	casevara casevara producios producio	1 .040343 2 .013117 3 .005343 4 .012475 4 .012475 7 .006661 8 .004 9 .004775 0 .000396  - 711 smlected) dp/ds. 1 .105568 2 .046386 4 .066472 5 .033883 6 .013883 6 .006661 1 .105568 1 .105568 1 .105568 2 .062386 1 .105568 2 .062386 1 .105568 2 .062386 2 .062386 2 .062386 2 .062386 3 .013833 6 .006661 0 .00682	.00515 .001716 .000755 .001645 .001645 .000961 .001685 .00006506963 3td.Err011974 .002295 .002279 .004196 .002798	7.64 7.08 7.58 7.58 7.27 7.27 7.27 7.27 7.27 1.27 1.27 1.4.61 11.62 14.41 11.62 14.41 11.62 14.41 11.52 14.41 11.53 14.51 11.53 11.5	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	.030249 .009754 .003863 .00925 .005106 -117528 .004865 .002864 .000338 .000269	.050437 .01648 .006857 .008857 .008858 .005137 .008458 .005137 .006109 .006083 .00522 .00522 .00522 .00522 .00523 .00522 .00523 .00522 .00525	22
rice r(choice : ariable rice r(choice : ariable	3 4 5 6 7 7 8 9 9 110 1 2 2 3 4 4 5 6 6 7 7 - 8 9 9 110 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.04471 .014599 .0005999 .000799 .000779 .000769 .00065 .0006 .00065 .00065 .00065 .00065 .00065 .00065 .00065 .0006 .0006 .00065 .00065 .00065 .0006	.005301 .001779 .000796 .001001 .012245 .000963 .001001 .002726 .000136 = .06992 Std. Err011804 .004253 .002253 .004263 .002663 .002663 .002665 .00	8.43 8.20 7.53 8.12 7.75 7.67 7.29 927 2 2 16.51 14.96 11.76 12.61 12.61 12.51 11.50 5.47	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	.034319 .011112 .004438 .010462 .0037997 .003441 .004005 .000384 .004005 .000384 .005295 .005295 .016833 .019625 .018837 .019625 .018837 .019636	.0551 .018087 .007756 .017118 .009721 .001091	.51844 .54321 1.015 .43715 .78078 2.78078 2.78078 2.10774 1.1894 .56867 X .51844 .54321 1.015 .43715 .43715 .43715 .43715 .43715 .43715 .436867	Prime  CAMPATE  CAMPATE  Variable  Variable  Price  CAMPATE  CAMPATE  Prichicle  Prichicle	1 .040343 2 .013117 3 .005434 2 .013117 3 .005434 2 .013117 3 .005434 2 .01545 2 .00699 2 .00699 2 .006664 2 .006664 2 .006664 2 .006664 2 .006664 2 .006664 2 .006584 2 .006586 2 .006586 2 .006586 2 .006586 2 .006661	.00515 .00716 .00717 .00716 .00717 .0	7.64 7.08 7.58 7.58 7.27 7.27 7.27 6.90 4.65 6.13 319 x 16.33 14.81 11.62 11.62 11.62 11.62 11.62 11.63 11.62 11.63 11.6	0.000 0.000	.030249 .009754 .009853 .008505 .005105 .002864 .003485 .00286 .00286 .00286 .00286 .00286 .00286 .00286 .00286 .00286 .00286 .00286	.050437 .01548 .006822 .008873 -071047 .008473 .009458 .0095137 .000522 .000522 .000522 .000522 .000522 .000522 .000522 .000522 .000525 .000525 .000525 .000525	2
Price Price Price Price Price Price	3 4 5 6 7 7 8 9 9 10 1 2 3 4 4 5 5 6 6 7 7 8 9 9 10 1 1 2 2 3 4 5 5 6 6 7 7 8 9 9 10 1 2 1 2 2 3 4 5 5 6 6 7 7 8 9 9 10 1 2 2 3 4 5 5 6 6 7 7 8 9 9 10 1 2 2 3 3 3 4 5 5 6 6 7 7 8 9 9 10 1 2 2 3 3 3 3 3 5 5 6 6 7 7 8 9 9 10 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	.04471 .014599 .005399 .007399 .007399 .007459 .007469 .0005428 .00065 .00065 .00065 .00066	.005301 .001779 .000796 .001001 .001298 .001001 .000963 .0000726 .000136 = .06992 Std. Err011804 .004253 .002223 .002223 .002223 .004135 .002681 .009613 .0042519 .002558 = .04385 Std. Err.	8.43 8.20 7.53 8.12 7.75 7.76 7.39 927 2 2 16.51 14.96 11.76 14.54 12.61 17.76 11.77 5.47	0.000 0.000	.034319 .011112 .004438 .010462 .003796 -1129087 .003582 .003441 .004003 .000384  .171731 .052295 .02179 .052 .022561 .001582 .001582 .001582 .001582	.0351 .018087 .007756 .017118 .009721 -081089 .003927 .006821 .000916  .218001 .218001 .01966 .030504 .068209 .039071 .006820 .039071 .006820 .00936	.51844 .54321 1.015 .43715 .34528 .78078 .82509 1.0774 1.1894 .56867 .51844 .54321 1.015 .43715 .34528 .78078 .82509 1.0774 1.1894 .36667	casevara casevara producios producio	1 .040343 2 .013117 3 .005343 5 .00543 5 .00699 5 .00699 7 .006661 9 .00675 10 .00036 11 .109568 2 .06356 1 .00536 1 .109568	.00515   .00716   .00515   .00716   .00	7.64 7.08 7.58 7.58 7.58 7.58 7.58 7.58 7.58 7.27 7.27 6.90 7.27 6.90 7.27 6.90 7.27 7.27 6.90 7.27 7.27 6.90 7.27 7.27 6.90 7.27 7.27 6.90 7.27 7.27 6.90 7.27 7.27 7.27 6.90 7.27 7.27 7.27 7.27 7.27 7.27 7.27 7.2	0.000 0.000	.030249	.050437 .01648 .005822 .0157 .008873 .008673 .008673 .008673 .006109 .00523 .00523 .00523 .00523 .00523 .00522 .007204 .007204 .007204 .007204 .007206	2
Price Price Price Price Price Price	3 4 5 6 7 7 8 9 110	.04471 .014599 .0005999 .000799 .000779 .000769 .00065 .0006 .00065 .00065 .00065 .00065 .00065 .00065 .00065 .0006 .0006 .00065 .00065 .00065 .0006	.005301 .001779 .000796 .001098 .001001 .012245 .000963 .000036 .000136 .000136 .000136 .001380 .001380 .00223 .00223 .00223 .002281 .002681 .002681 .002681 .002681 .002681 .003435 .003435 .003435 .003435 .003435 .003435	8.43 8.20 7.53 8.12 7.75 7.76 7.39 7.47 4.78 927 2 16.51 11.76 11.76 11.76 11.50 5.47	0.000 0.000	.034319 .011112 .004438 .0104482 .0104462 .0104662 .129087 .005582 .003384 .171731 .055295 .02179 .052 .02179 .052 .02179 .052 .02179 .052 .02179 .052 .02179 .052 .02179 .052 .02179 .052 .02179 .052 .02179 .052 .02179 .052 .02179 .052 .02179 .052 .03574 .040636	.0551 .018087 .007736 .017718 .017718 .017718 .017718 .017718 .017718 .017718 .017718 .017718 .017718 .017718 .01893 .009325 .009315 .009315 .009316 .017966 .030504 .	.51844 .54321 1.015 .43715 .34528 .78078 .82509 1.0774 1.1894 1.1894 .56867 .56867 .78078 .82509 1.015 .43715 .34528 .78078 .82509 1.0774 1.1894 .56867	casevara casevara producios producio	1 .049343 2 .013117 3 .00936	.00515	7.64 7.08 7.08 7.08 7.08 7.08 7.08 7.08 7.08	0.000 0.000	.030249	.050437	2
rice r(choice : ariable rice r(choice : ariable	3 4 5 6 7 7 8 9 9 10 11 2 3 3 4 4 5 5 6 6 7 7 - 8 9 9 10 12 3 3 4 5 5 6 6 7 7 6 8 9 10 10 10 10 10 10 10 10 10 10 10 10 10		.005301 .001779 .000736 .001779 .000736 .001790 .001898 .001638 .001634 .001634 .001634 .001634 .001634 .001635 .001636 .001666 .001666 .001666 .001666 .001666 .001666 .001666 .001666 .001666 .001666 .001666 .001666 .00166	8.43 8.20 7.53 8.12 7.75 7.75 7.76 7.76 4.78 927 2 14.96 11.76 14.54 12.61 11.50 5.47 11.50 5.47 11.50 5.47 7.76 11.17 11.50 5.47 7.75 7.76 11.17 11.50 7.75 7.75 7.75 7.75 7.75 7.75 7.75 7	Description	.034319 .011112 .0110462 .003796 .129087 .003542 .003461 .004003 .000384 .171731 .055295 .02179 .055295 .02179 .055295 .02179 .055295 .02179 .055295 .02179 .055295 .02179 .055295 .003682 .00	.0551 .018087 .018087 .017118 .009721 .009721 .009721 .0019325 .005927 .006820 .009926 .017166 .030504 .068209 .030504 .068209 .030504 .068209 .030504 .068209 .030504 .068209 .030504 .0030504 .0030504 .0030504 .0030504 .0030504 .0030504 .0030504 .0030504 .0030504 .0030504 .0030504 .0030504 .0030504 .0030504 .0030504 .0030504 .0030504 .0030504 .0030504	.51844 .54321 .147715 .34528 .78078 .82509 1.0774 .1.1894 .56867 	casevara casevara producios producio	1 .040343 2 .013117 3 .013	.00515	7.64 7.08 7.08 7.08 7.08 7.08 7.08 7.08 7.08	0.000 0.000	.030249	.050437	2
rice r(choice : ariable rice r(choice : ariable	3 4 5 6 7 7 - 8 9 9 10 1 1 2 3 3 4 4 5 6 6 7 7 8 8 9 10 1 2 3 3 4 5 5 6 6 7 8 8 9 10 1 1 2 2 3 3 4 5 5 6 6 7 8 8 9 10 1 1 2 2 3 3 4 5 5 6 6 7 7 8 8 9 10 1 1 2 2 3 3 4 5 5 6 6 7 7 8 8 9 10 1 1 2 2 3 3 4 5 5 6 6 7 7 8 8 9 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.04471 .014399 .005399 .005399 .007499 .007499 .007499 .007469 .007469 .004684 .003611 .124262 .002636 .007469 .007469 .007469 .007469 .007469 .007469 .007469	.003301 .001779 .001779 .001779 .001779 .001779 .001776 .001776 .001776 .000716 .000716 .000717 .00071	8.43 8.20 7.53 8.12 7.75 7.75 7.76 7.76 11.76 11.76 11.76 11.76 11.76 11.50 11.76 11.50 11.76 11	Description	.034319 .031312 .001438 .001438 .010462 .003796 .129087 .003582 .004003 .004003 .004003 .004003 .005293 .02279 .052 .022791 .05293 .022793 .02		.51844 .54224 .14713 .78078 .78078 .2509 1.0774 .54221 1.015 .34228 .2509 .250	casevara casevara rechoice veriable Price casevara casevara casevara casevara casevara rechoice veriable	1 .04933 2 .013117 3 .00936	.00515	7.64 7.08 7.08 7.58 7.08 7.58 7.08 7.58 7.27 7.27 7.27 6.90 7.27 6.90 7.27 7.27 6.90 7.27 1.4.65 7.27 7.27 7.27 7.27 7.27 7.27 7.27 7.2	0.000 0.000	.030249	.050437 .0.0468 .0.06872 .0.0568 .0.06872 .0.0552 .0.0	27 27 27 27 27 27 27 27 27 27 27 27
rice  r(choice ariable rice)	3 4 5 6 7 8 9 9 9 10 1 1 2 2 3 3 4 4 5 6 6 7 7 8 9 9 9 10 1 1 2 2 3 3 4 5 5 6 6 7 7 8 9 9 9 9 10 1 1 2 2 3 3 4 5 5 6 6 7 7 8 9 9 9 9 10 1 1 2 2 3 3 4 5 5 6 6 7 7 8 9 9 9 9 10 1 1 2 2 3 3 4 5 5 6 6 7 7 8 9 9 9 9 1 1 1 1 2 2 3 3 4 5 5 6 6 7 7 8 9 9 9 9 1 1 1 1 2 2 3 3 4 5 5 6 6 7 7 8 9 9 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.04471 .014499 .005199 .005199 .005199 .007159 .007159 .007469	.005301 .00379 .00379 .00378 .00378 .00378 .00100 .00100 .00100 .00100 .00093 .00036 .00036 .00036 .00136 .00223 .00188 .00237 .00188 .00238	8.43 8.20 7.53 8.12 7.75 7.75 8.72 4.78 927 2 2 16.51 11.76 11.76 11.50 5.47 975 2 12.69 975 975 975	0.000	.014319 .031312 .031412 .031412 .001418 .010462 .005796 .005892 .002441 .003384 .00338	.0551 .01893 .01893 .017118 .017118 .017118 .009721 .009325 .003927 .003927 .003925 .0	.51844 .54221 1.0013 1.0013 7.8078 2.5099 1.0774 2.51844 .54221 1.1894 .54221 1.1894 .54221 1.1894 .54221 1.1894 1.4011 1.1894 1.4011 1	casevara casevara rechoice veriable Price casevara casevara casevara casevara casevara rechoice veriable	1 .049343 2 .013117 3 .013	.00515	7.64 7.08 7.27 7.27 6.90 7.27 6.90 7.27 7.27 6.90 7.27 7.27 6.90 7.27 7.27 6.90 7.27 7.27 6.90 7.27 7.27 7.27 7.27 7.27 7.27 7.27 7.2	0.000 0.000	.010249	.050437 .00468 .006822 .0057 .006829 .006820 .	27
rice  r(choice or r(choice or rice)	3 4 5 6 7 8 9 9 10 1 1 2 2 3 3 4 4 5 6 6 7 7 8 9 9 10 10 1 2 2 3 3 4 5 6 6 7 7 8 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10	.04471 .014799 .005399 .005399 .007759 .105088 .105082 .105082 .0007469 .004684 .00065 .00065 .00068 .00068 .00068 .00068 .00068 .00068 .00068 .0007469 .0007469 .0007469 .0007469 .0007469 .00068 .0007469 .00074	.003911 .003191 .003191 .001596 .001698 .001691 .000931	8.43 8.20 7.53 8.12 7.73 9.75 4.78 927 2 16.51 14.96 11.76 11.76 11.76 11.75 11.50 5.47 11.50 5.47	0.000	.034319 .011112 .01111	.0551	.51844 .54213 .42713 .42713 .42713 .42713 .42713 .42713 .42713 .42713 .42713 .42713 .51844 .54867  X  X  X  X  X  X  X  X  X  X  X  X  X	casevare casevare probates probates probates probates probates probates probates probates probates casevare cas	1 .040343 2 .013117 2 .013117 3 .013117 5 .00661 5 .00698 6 .0077 6 .00661 1 .00677 1 .00661 1 .00687 4 .00677 2 .00661 2 .00687 6 .00677 6 .00677 6 .00677 6 .00677 6 .00677 6 .00677 6 .00677 7 .00661 1 .135666 6 .00667 7 .00677 7 .00687	.00515001716001716001716001780018100181000618 .	7.64 7.08 7.08 7.08 7.08 7.08 7.08 7.08 7.08	0.000 0.000	.030249	.050437 .01648 .01649 .01692 .0157 .006822 .0157 .006438 .006522 .006522 .00652	27 27 27 27 27 27 27 27
rice  r(choice    r(choice    r(choice    r(choice    r(choice    r(choice	3 4 5 6 7 8 9 9 10 1 1 2 2 3 3 4 4 5 6 6 7 7 8 9 9 10 10 1 2 2 3 3 4 5 6 6 7 7 8 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10	.04471 .04473 .01499 .01479 .01379 .01379 .01379 .01379 .01498 .0	.003911 .003191 .003191 .001596 .001698 .001691 .000931	8.43 8.20 7.53 8.12 7.73 9.75 4.78 927 2 16.51 14.96 11.76 11.76 11.76 11.75 11.50 5.47 11.50 5.47	0.000	.034319 .011112 .01111	.0551	.51844 .54213 .42713 .42713 .42713 .42713 .42713 .42713 .42713 .42713 .42713 .42713 .51844 .54867  X  X  X  X  X  X  X  X  X  X  X  X  X	casevare casevare probates probates probates probates probates probates probates probates probates casevare cas	1 .040343 2 .013117 3 .013	.00515	7.64 7.08 7.08 7.08 7.08 7.08 7.08 7.08 7.08	0.000 0.000	.000249 .000249	.056437 .05648 .06622 .06873 .06873 .06873 .06873 .06873 .06873 .06848 .06648	27
rice  rr(choice - rr(choice - rrice)	3 4 5 6 7 8 9 9 10 1 1 2 2 3 3 4 4 5 6 6 7 7 8 9 9 10 10 1 2 2 3 3 4 5 6 6 7 7 8 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10	.04471 .04491 .01499 .01499 .01379 .01379 .01379 .01379 .01579 .01579 .02769 .02769 .0369	.005301 .00179 .00179 .00179 .00179 .00189 .	8.43 8.20 7.552 8.20 7.552 8.58 7.77 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0.000   0.00	.012129	.0551 .02807 .00756 .00	.51844 .54231 .1015 .42715 .42715 .42715 .42715 .42715 .42715 .42715 .54867 .54867 .54867 .54867 .54867 .54867 .54867	Casevara  Casevara  Casevara  Friction  Fricti	1 .040343 2 .013117 3 .013	.00515	7.64 7.08 7.08 7.09 7.09 7.09 7.09 7.09 7.09 7.09 7.09	0.000 0.000	.00249	.050437 .01648 .01648 .00873 .00873 .00873 .00873 .00883 .00873 .00883	- 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5
rice  rr(choice - rr(choice - rrice)	3 4 5 6 7 7 8 9 9 10 1 2 3 3 4 5 5 6 7 7 8 8 9 9 10 1 1 2 2 3 3 4 5 5 6 6 7 7 8 8 9 9 10 1 2 2 3 3 4 5 5 6 6 7 7 8 8 9 9 10 1 1 2 2 3 3 4 5 5 6 7 7 8 8 9 9 10 1 1 2 2 3 3 4 5 5 6 7 7 8 8 9 9 10 1 1 2 2 3 3 4 5 5 6 7 7 8 8 9 9 10 1 1 2 2 3 3 4 5 5 6 7 7 8 9 9 10 1 1 2 2 3 3 4 5 5 6 7 7 8 8 9 10 1 1 2 2 3 3 4 5 5 6 7 7 8 9 9 10 1 1 2 2 3 3 4 5 5 6 7 7 8 9 9 10 1 1 2 2 3 3 4 5 5 6 7 7 8 9 9 10 1 1 2 2 3 3 3 4 5 5 6 7 7 8 9 9 10 1 1 2 2 3 3 3 4 5 5 6 7 7 8 9 9 10 1 1 2 2 3 3 3 4 5 5 6 7 7 8 9 9 10 1 1 2 2 3 3 3 4 5 5 6 7 7 8 9 9 10 1 1 2 2 3 3 3 4 5 5 6 7 7 8 9 9 10 1 1 2 2 3 3 3 4 5 5 6 7 7 8 9 9 10 1 1 2 2 3 3 3 4 5 5 6 7 7 8 9 9 10 1 1 2 2 3 3 3 4 5 5 6 7 7 8 9 9 10 1 1 2 2 3 3 3 4 5 5 6 7 7 8 9 9 10 1 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	.04471 .014593 .011593 .011593 .011793	.005301 .005301 .00179 .001796 .001898 .001888	8.43 8.20 7.75 -8.58 7.75 -8.58 7.33 4.78 2 2 16.51 11.76 11.77 2 12.61 11.50 5.47 2 2 13.62 2 12.69 11.74 2 11.50 5.47 2 11.74 2 11.75 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Description	.03319 .001112	.6551	.51844 .54231 .1015 .42713 .42713 .22509 .22509 .25667  X  .51844 .42713 .42667  X  .51844 .42713 .42667  X  .51844 .54713 .6667	Casevara  Casevara  Frichnica  Variable  Price  Casevara  Casevara	1 .040343 2 .013117 3 .013	.00515001716001716001716001716001716001716000171	7.64 7.08 7.08 7.08 7.08 7.08 7.08 7.08 7.08	0.000 0.000	.00249 .00374 .00384 .00375 .00386 .00375 .00386 .00376 .0	.050437 .01648 .00623 .00823 .00823 .00823 .00823 .00823 .00833 .00632 .00833 .00632 .00633 .00633 .00633 .00632 .00633 .0063 .00633 .0	21 - 4 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3
rice  rr(choice - rr(choice - rrice)	3 4 5 6 7 7 8 9 9 10 10 1 2 3 4 4 5 6 6 7 7 8 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10	.04471 .014593 .012593 .01379 .01379 .01379 .01379 .01379 .01379 .01379 .01379 .004684 .005428 .01362 .013638 .013688	.005301 .005301 .001796 .001796 .001693 .00169	8.43 8.20 7.75 8.20 7.75 8.58 7.75 8.58 7.39 7.74 4.78 8.77 8.78 11.76 11.77 12.51 11.50 11.76 11.17 11.50 11.18 11.51 1	0.000	.034319 .001312 .001312 .001438 .001438 .004438 .004438 .004438 .005421 .005523 .005223 .005223 .005223 .005223 .005223 .005223 .005223 .005223 .005223 .005223 .005223 .005223 .005223 .005233 .00523	.0551 .02867 .00756 .00	.51844 .54921 .1015 .42713 .11844 .1184 .1	Casevara  Casevara  Frichnica  Variable  Price  Casevara  Casevara	1 .040343 1 .040343 2 .013137 2 .013137 3 .013137 3 .013137 4 .02247 5 .006641  - 01 .000534	.00515001746001746001746000745000745000745000745000746000746000746000746000746000747	7.64 7.08 7.08 7.09 7.09 7.09 7.09 7.09 7.09 7.09 7.09	0.000 0.000	.00248 .00754 .002554	.005437 .006487 .00687 .0087	.55.11.44.3378.15.55.11.44.3378.27
rice  rr(choice - rr(choice - rrice)	3 4 5 6 7 7 8 9 9 10 1 2 3 4 4 5 5 6 7 7 8 9 9 10 1 2 3 4 4 5 5 6 7 7 8 9 9 10 1 2 3 3 4 5 5 6 7 7 8 9 9 9 1 1 2 3 3 4 5 5 6 7 7 8 9 9 9 1 1 2 3 3 4 5 5 6 7 7 8 9 9 9 1 1 2 3 3 4 5 5 6 7 7 8 9 9 9 1 1 2 3 3 4 5 5 6 7 7 8 9 9 9 1 1 2 3 3 4 5 5 6 7 7 8 9 9 9 1 1 2 3 3 4 5 5 6 7 7 8 9 9 9 1 1 2 3 3 4 5 5 6 7 7 8 9 9 9 1 1 2 3 3 4 5 5 6 7 7 8 9 9 9 1 1 2 3 3 4 5 5 6 7 7 8 9 9 9 1 1 2 3 3 4 5 5 6 7 7 8 9 9 9 1 1 2 3 3 4 5 5 6 7 7 8 9 9 9 1 1 2 3 3 4 5 5 6 7 7 8 9 9 9 1 1 2 3 3 4 5 5 6 7 7 8 9 9 9 1 1 2 3 3 4 5 5 6 7 7 8 9 9 9 1 1 2 3 3 4 5 5 6 7 7 8 9 9 9 1 1 2 3 3 4 5 5 6 7 7 8 9 9 9 1 1 2 3 3 4 5 5 6 7 7 8 9 9 9 1 1 2 3 3 4 5 5 6 7 7 8 9 9 9 1 1 2 3 3 4 5 5 6 7 7 8 9 9 9 1 1 2 3 3 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		.005301 .00130	8.43 8.20 8.23 8.12 7.23 8.12 7.75 7.77 7.77 7.77 7.77 7.77 7.77 7.7	0.000   0.00	.015129	.0551 .02007 .00756 .00	.51844 .54231 .1015 .43713 .82509 .82509 .54867 .54867 .54867 .54867 .54867 .54867 .54867 .54867	Casevara  Casevara  Frichnica  Variable  Price  Casevara  Casevara	1 .040343 2 .013117 2 .013	.00515	7.64 7.08 7.08 7.09 7.09 7.09 7.09 7.09 7.09 7.09 7.09	0.000 0.000	.30249 .009734 .009734 .009863 .009344 .000863 .000866	.050437	
rice  rr(choice - rr(choice - rrice)	3 4 5 6 7 7 8 9 10 1 2 3 3 4 4 5 6 6 7 7 8 9 10 1 2 2 3 3 4 5 6 6 7 7 8 9 10 1 2 2 3 3 4 5 6 6 7 7 8 9 10 1 2 2 3 3 4 5 6 6 7 7 8 9 10 1 2 2 3 3 4 5 6 6 7 7 8 9 10 1 2 2 3 3 4 5 6 6 7 7 8 9 10 1 2 2 3 3 4 5 6 6 7 7 8 9 10 1 2 2 3 3 4 5 6 6 7 7 8 9 10 1 1 1 2 2 3 3 4 5 6 6 7 7 8 9 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.04471 .014739 .014739 .014799 .013799 .013799 .007769 .007769 .007769 .00769 .	.005301 .001796 .00179	8.43 8.29 8.29 7.53 8.12 7.75 7.75 7.75 7.75 9.74 4.78 927 2 2 16.51 14.96 14.76 14.78 11.76 11.17 11.50 975 2 2 2 12.65 11.17 11.57 11.17 11.57 11.17	0.000	.034319	.0551 .01807 .00766 .00756 .00	.51844   .51841   .51	Casevers  Casevers  Casevers  Casevers  Fridadica	1 .040343 2 .013117 3 .013	.00515	7.64 7.08 7.08 7.09 7.09 7.09 7.09 7.09 7.09 7.09 7.09	0.000   0.00	.00249	.050427	27
rice  r(choice - rice  r(choice - rice  r(choice - rice  r(choice - rice	3 4 5 6 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	.04471 .014599 .014599 .013799 .013799 .007769 .007769 .00	.005301 .001797 .001796 .001796 .001796 .00189	8.43 8.20 8.23 8.12 7.23 8.12 7.75 7.77 7.77 7.77 7.77 7.77 7.77 7.7	0.000	.014319 .013112 .013112 .013112 .013112 .013121 .01312	.0551 .02007 .00756 .00	.51844 .54231 .1015 .437135 .82509 .10774 .10774 .10774 .10774 .10774 .11874 .1	Camerara  Camerara  Frichica  Frichica  Camerara  Camera	1 .040343	.00515001746001750017600176000981 .	7.64 7.08 7.08 7.09 7.09 7.09 7.09 7.09 7.09 7.09 7.09	0.000 0.000	.30249 .009734 .009734 .009863 .009344 .000863 .000866	.050437	27
rice  r(choice r(choice r(choice rice	3 4 5 6 7 7 8 9 9 10 1 1 2 3 4 4 5 6 6 7 7 8 9 9 10 1 1 2 3 4 4 5 6 6 7 7 8 9 9 10 1 1 2 3 4 4 5 6 6 7 7 8 9 9 10 1 1 2 3 8 9 10 1 1 2 3 8 9 10 1 1 2 3 8 9 10 1 1 2 3 8 9 10 1 1 2 1 2 3 8 9 10 1 1 1 2 3 8 9 10 1 1 1 2 3 8 9 10 1 1 1 2 3 8 9 10 1 1 1 1 2 3 8 9 10 1 1 1 1 2 3 8 9 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.04471 .014799 .014799 .014799 .014799 .014799 .014799 .014799 .004684 .00065 .007669 .00065 .00066	.005301 .001379 .00137	8.43 8.20 8.20 7.53 8.12 7.76 7.79 7.79 7.79 7.79 7.79 7.39 7.47 8.11 14.96 11.76 11	P> E	.014319 .011112 .01112 .011112	.0551	.51844   X   .51841   X   .51841   X   X   .51844   X   X   .51844   X   X   X   .51844   X   X   X   X   X   X   X   X   X	Casevers  Casevers  Casevers  Casevers  Fridadica	1 .040343 2 .013117 2 .013117 3 .00699 5 .00699 6 .007 6 .00699 7 .006661 1 .195568 2 .06459 4 .06472 5 .06482 1 .195568 2 .06482 1 .00682 6 .01383 1 .00682 1 .117449 2 .00883 1 .117449 2 .00883 1 .117449 2 .00883 1 .117449 2 .00883 1 .117449 2 .00883 1 .117449 2 .00883 1 .117449 2 .00883 1 .117449 2 .00883 1 .117449 2 .00883 1 .00883 1 .00883 1 .00883 1 .00883 1 .00883 2 .00883 3 .00883 3 .00883 3 .00883 4 .00883 5 .00883 5 .00883 6 .00883	.00515	7.64 7.08 7.08 7.09 7.09 7.09 7.09 7.09 7.09 7.09 7.09	0.000 0.000	.00249	.050437	
rrice  Pr(choice  rrichoice  rrichoice  rrichoice  rrichoice  rrichoice  rrichoice	3 4 5 6 7 7 8 9 9 10 1 1 2 3 4 4 5 6 6 7 7 8 9 9 10 1 1 2 3 4 4 5 6 6 7 7 8 9 9 10 1 1 2 3 4 4 5 6 6 7 7 8 9 9 10 1 1 2 3 8 9 10 1 1 2 3 8 9 10 1 1 2 3 8 9 10 1 1 2 3 8 9 10 1 1 2 1 2 3 8 9 10 1 1 1 2 3 8 9 10 1 1 1 2 3 8 9 10 1 1 1 2 3 8 9 10 1 1 1 1 2 3 8 9 10 1 1 1 1 2 3 8 9 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.04471 .014799 .01479 .01479 .01479 .014	.00301 .00379 .000796 .000796 .00098 .000936 .000934 .000932	8.43 8.20 8.20 7.53 8.12 7.76 7.73 7.73 7.73 7.39 7.47 11.17 11.26	0.000   0.00	.014319	.0531 .02007 .00756 .00	.51844 .54827 .47125 .4	casevers	1 .040343 2 .013117 2 .013117 3 .013117 5 .00608 5 .006098 6 .006098 6 .006775 1 .006661 1 .135566 2 .006673 2 .006775 3 .006673 4 .00673 5 .00673 5 .00673 6 .00673	.005150071600	7.64 7.70 7.03 7.03 7.03 7.03 7.03 7.03 7.03	0.000	.030249 .030744 .030249 .03074 .03086	.000437	
Price  Prichoice  Prichoice  Prichoice  Prichoice  Prichoice  Prichoice  Prichoice  Prichoice  Prichoice	3 4 5 6 7 7 8 9 10 1 1 2 3 3 4 5 6 6 7 7 8 9 9 10 1 1 2 3 3 4 5 6 6 7 7 8 9 9 10 1 1 2 3 3 4 5 6 6 7 7 8 9 9 10 1 1 2 3 3 4 5 6 6 7 7 8 9 9 10 10 1 2 3 3 4 5 6 6 7 7 8 9 9 10 10 1 2 3 3 4 5 6 6 7 7 8 9 9 10 10 1 2 3 3 4 5 6 6 7 7 8 9 9 10 10 1 2 3 3 4 5 6 6 7 7 8 9 9 10 10 1 2 3 3 4 5 6 6 7 7 8 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10	.04471 .014799 .014799 .014799 .014799 .014799 .014799 .014799 .014799 .004684 .007669 .007669 .007669 .007669 .006831 .194866 .007669 .006831	.00301 .00379 .00302 .00364 .00438 .0	8,43 8,20 8,20 8,12 7,53 8,112 7,76 8,112 14,96 11,74 14,96 11,74 11,96 11,74 11,50 7,76 11,50 1	P> E     0.000	.014319 .011112 .011112 .011112 .011112 .011	.0551 .02007 .00756 .00	.51844 .54231 .5	Casevara  Casevara  Frichnice  Casevara  Casevara  Casevara  Loco  Casevara  L	1 .040343 2 .013117 2 .013117 3 .013117 5 .00661 5 .00699 6 .00775 6 .00661 1 .135566 6 .00661 1 .135566 6 .00661 1 .135566 6 .00661 1 .135566 6 .00661 2 .00687 2 .00887 3 .00887 6 .0	.00515	7.64 7.70 7.00 7.00 7.00 7.00 7.00 7.00 7.0	0.000	.030249 .00774 .	.000437	22
Price  Pr(choice - ratiable - rice - ratiable - ra	3 4 5 6 7 7 8 9 9 10 1 1 2 3 3 4 4 5 6 7 7 8 9 9 10 1 1 2 2 3 3 4 5 5 6 7 7 8 9 9 10 1 1 2 2 3 3 4 5 5 6 7 8 9 9 10 1 1 2 2 3 3 4 5 5 6 7 8 9 9 10 1 1 2 2 3 3 4 5 5 6 7 8 9 9 10 1 1 2 2 3 3 4 5 5 6 7 8 9 9 10 1 1 2 2 3 3 4 5 5 6 7 8 9 9 10 1 1 2 2 3 3 4 5 5 6 7 8 9 9 10 1 1 2 2 3 3 4 5 5 6 7 7 8 9 9 10 1 1 2 2 3 3 4 5 5 6 7 7 8 9 9 10 1 1 2 2 3 3 4 5 5 6 7 7 8 9 9 10 1 1 2 2 3 3 4 5 5 6 7 7 8 9 9 10 1 1 2 2 3 3 4 5 5 6 7 7 8 9 9 10 1 1 2 2 3 3 4 5 5 6 7 7 8 9 9 10 1 1 2 2 3 3 4 5 5 6 7 7 8 9 9 10 1 1 2 2 3 3 4 5 5 6 7 7 8 9 9 10 1 1 2 2 3 3 4 5 5 6 7 7 8 9 9 10 1 1 2 2 3 3 4 5 5 6 7 7 8 9 9 10 1 1 2 2 3 3 4 5 5 6 7 7 8 9 9 10 1 1 2 2 3 3 4 5 5 6 7 7 8 9 9 10 1 1 2 2 3 3 4 5 5 6 7 7 8 9 9 10 1 1 2 2 3 3 4 5 5 6 7 7 8 9 9 10 1 1 2 2 3 3 4 5 5 6 7 7 8 9 9 10 1 1 2 2 3 3 4 5 5 6 7 7 8 9 9 10 1 1 2 2 3 3 4 5 5 6 7 7 8 9 9 10 1 1 2 2 3 3 4 5 6 7 7 8 9 9 10 1 1 2 2 3 3 4 5 6 7 7 8 9 9 10 1 1 2 2 3 3 4 5 6 7 7 8 9 9 10 1 1 2 2 3 3 4 5 6 7 7 8 9 9 10 1 1 2 2 3 3 4 5 6 7 7 8 9 9 10 1 1 2 2 3 3 4 5 6 7 7 8 9 9 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.04471 .014799 .014799 .014799 .014799 .014799 .017699 .017699 .017699 .017699 .017699 .017699 .017699 .017699 .017699 .0176999 .014699 .014699 .014699	.00301 .00379 .000796 .000796 .00098 .000936 .000934 .000932	8.43 8.20 8.20 7.53 8.112 7.76 8.112 7.76 7.76 8.77 4.78 927 2 2 2 16.51 11.17 11.50 12.61 12.61 11.17 11.50 11.50	0.000   0.00	.034319 .011112 .011112 .011112 .011112 .011112 .01112	.0531 .02007 .00756 .00	.51844	Casevara  Casevara  Friction  Friction  Friction  Friction  Casevara  General  Casevara  Friction  Casevara  Casevara  Casevara  Friction  Casevara  Casevar	1 .040343 2 .013117 2 .013117 3 .013117 5 .00090 5 .00090 6 .00075 6 .00090 6 .00090 7 .000661 1 .195568 4 .066472 6 .000476 1 .137449 1 .000900 8 .1 anisotedd dp/da 1 .137449 2 .000803 8 .1 anisotedd dp/da 1 .137449 3 .013554 4 .066472 6 .000803 8 .1 anisotedd dp/da 1 .137449 3 .013554 4 .066472 6 .000803 8 .000803	.00515	7.64 7.05 7.05 7.05 7.05 7.05 7.05 7.05 7.05	P-1x1	.030249 .00374 .00384 .00386 .00366	.000437 .00652	
Price  Prichoice  Prichoice  Prichoice  Prichoice  Prichoice  Prichoice  Prichoice  Prichoice  Prichoice	3 4 5 6 7 8 9 9 10 1 1 2 3 3 4 5 6 6 7 7 8 8 9 9 10 1 1 2 3 3 4 5 6 6 7 7 8 8 9 9 10 1 1 2 3 3 4 5 6 6 7 7 8 9 9 10 1 1 2 3 3 4 5 6 6 7 7 8 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10	.04471 .014799 .01479 .014799	.005301 .001379 .00137	8.43 8.20 8.20 8.13 8.13 8.13 7.53 8.13 7.64 8.13 1.14 9.14 1.14	P> z	.034319 .011112 .011112 .011112 .011112 .011112 .011112 .011112 .011112 .011112 .011112	.0551	.51844 .54213 .1.1016 .2.1016	Casevara  Casevara  Friction  Friction  Friction  Friction  Casevara  General  Casevara  Friction  Casevara  Casevara  Casevara  Friction  Casevara  Casevar	1 .040343 2 .013117 2 .013117 2 .013117 2 .013117 2 .013117 2 .013117 2 .013117 2 .013117 2 .013117 2 .01317 2 .00377 2 .00377 3	.00515 - 00716	7.64 7.02 7.03 7.03 7.03 7.03 7.03 7.03 7.03 7.03	0.000	.030249 .030744 .030249 .030744 .03084 .03086 .0308	.000437	
Price  Prichoice  Prichoice  Prichoice  Prichoice  Prichoice  Prichoice  Prichoice  Prichoice  Prichoice	3 4 5 6 7 8 9 9 10 1 1 2 3 3 4 5 6 6 7 7 8 8 9 10 1 1 2 3 3 4 5 6 6 7 7 8 8 9 10 1 1 2 3 3 4 5 6 6 7 7 8 8 9 9 10 1 1 2 3 3 4 5 6 6 7 7 8 8 9 9 10 10 1 1 2 3 3 4 5 6 6 7 7 8 9 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10	.04471 .014799 .01479 .01479 .01479 .01479 .01479 .01479 .01479 .01479 .01479 .01479 .01479 .01479 .01479 .01479 .0147	.00301 .00310 .00379 .00038 .00098 .0	8.43 8.20 8.20 7.53 8.112 7.76 8.112 7.76 8.128 7.76 11.4.96 11.74 11.4.96 11.74 11.4.96 11.74 11.50 11.50 1	0.000   0.00	.014319 .013112 .013112 .013112 .013112 .013112 .013121 .01312	.0551	.51844 .51841 .51841 .51841 .51841 .51844 .5	Casevara  Casevara  Friction  Friction  Friction  Friction  Casevara  General  Casevara  Friction  Casevara  Casevara  Casevara  Friction  Casevara  Casevar	1 .040343 2 .013117 2 .013	.00515	7.64 7.70 7.00 7.00 7.00 7.00 7.00 7.00 7.0	0.000   0.00	.030249 .003744 .003863 .003164 .003666	.000437	
rrice  Pr(choice  Pr(choice  Pr(choice  rariable  Price	3 4 5 6 7 7 8 9 9 10 1 1 2 3 4 4 5 6 6 7 7 8 8 9 9 10 1 1 2 3 3 4 5 6 6 7 7 8 8 9 9 10 1 1 2 3 3 4 5 6 6 7 7 8 8 9 9 10 1 1 2 3 3 4 5 6 6 7 7 8 8 9 9 10 1 1 2 3 3 4 5 6 6 7 7 8 8 9 9 10 1 1 2 3 3 4 5 6 6 7 7 8 8 9 9 10 1 1 2 3 3 4 5 6 6 7 7 8 8 9 9 10 1 1 2 3 3 4 5 6 6 7 7 8 8 9 9 10 1 1 2 3 3 4 5 6 6 7 7 8 8 9 9 10 1 1 2 3 3 4 5 6 6 7 7 8 8 9 9 10 1 1 2 3 3 4 5 6 6 7 7 8 8 9 9 10 1 1 2 3 3 4 5 6 6 7 7 8 8 9 9 10 1 1 2 3 3 4 5 6 6 7 7 8 8 9 9 10 1 1 2 3 3 4 5 6 6 7 7 8 8 9 9 10 1 1 2 3 3 4 5 6 6 7 7 8 8 9 9 10 1 1 2 3 3 4 5 6 6 7 7 8 8 9 9 10 1 1 2 3 3 4 5 6 6 7 7 8 8 9 9 10 1 1 1 2 3 3 4 5 6 6 7 7 8 8 9 9 10 1 1 1 2 3 3 4 5 6 6 7 7 8 8 9 9 10 1 1 1 2 3 3 4 5 6 6 7 7 8 8 9 9 10 1 1 1 2 3 3 4 5 6 6 7 7 8 8 9 9 10 1 1 1 2 3 3 4 5 6 6 7 7 8 8 9 9 9 10 1 1 1 2 3 3 4 5 6 6 7 7 8 8 9 9 9 1 1 1 1 2 3 3 4 5 6 6 7 7 8 8 9 9 9 1 1 1 1 2 3 3 4 5 6 6 7 7 8 8 9 9 9 1 1 1 1 2 3 3 4 5 6 6 7 7 8 8 9 9 9 1 1 1 1 2 3 3 4 5 6 6 7 7 8 8 9 9 9 1 1 1 1 2 3 3 4 5 6 6 7 7 8 8 9 9 9 1 1 1 1 2 3 3 4 5 6 6 7 7 8 8 9 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.04471 .014579 .01479	.005301 .005301 .005301 .001796 .001698 .001688 .00168	8.43 8.20 8.20 7.53 8.113 7.76 8.113 7.76 8.123 7.76 11.76 11.76 11.77 12.51 12.51 13.62 12.69 13.62 13	0.000	.015219 .015112 .015112 .015112 .015112 .015121 .01512	.0551 0596 03976 03984 .	.51844 .54821 .1894 .54821 .1894 .54821 .1894 .54821 .1894 .54867 .48925 .54821 .1894 .28921 .1894 .28921 .1894 .28921 .1894 .28921 .1894 .28921 .1894 .28921 .1894 .28921 .1894 .28921 .1894 .28921 .1894 .28921 .1894 .28921 .1894 .28921 .28	Casevara  Casevara  Friction  Friction  Friction  Friction  Casevara  General  Casevara  Friction  Casevara  Casevara  Casevara  Friction  Casevara  Casevar	1 .040343 2 .013117 2 .013117 3 .00031 5 .00092 5 .00093 6 .00093	.00515	7.64 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.7	0.000   0.00	.030249 .00374 .00384 .00386 .	.000437	5.5.4.4.4.5.1.1.5.5.5.5.5.5.5.5.5.5.5.5.
rice  r(choice ariable rice  r(choice ariable rice  rr(choice ariable rice	3 4 5 6 7 7 8 9 9 10 1 2 3 4 4 5 6 6 7 7 8 9 9 10 1 2 3 3 4 4 5 6 6 7 7 8 9 9 10 1 2 3 3 4 4 5 6 6 7 7 8 9 9 10 1 2 3 3 4 4 5 6 6 7 7 8 9 9 10 1 2 3 3 4 5 6 6 7 7 8 9 9 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.04471 .014799 .01479 .014799	.005301 .00179 .001796	8.43 8.20 8.20 8.13 8.13 8.13 7.53 8.13 7.64 7.73 4.78 927 2 2 16.51 11.49 12.61 17.79 11.50 2 2 2 3 3 11.261 17.36 11.261 17.36 11.261 17.36	P> II   0.000	.034319 .001112 .001112 .00110	.0551 03786	.51844 .54213 .15844 .54221 .15844 .54221 .15844 .54221 .15845 .34221 .15845 .15845 .1	casevers cas	1 .040343 2 .013117 2 .013117 2 .013117 2 .013117 2 .013117 2 .013117 2 .013117 3 .013117 3 .01317 4 .01317 4 .01317 4 .01317 5 .01317 4 .01317 6 .	.005150071700	7.64 7.07 7.08 7.27 7.09 7.09 7.09 7.09 7.09 7.09 7.09 7.0	P-181  0.000 0.000 0.0000	.030249 .030744 .030249 .030744 .03084 .03084 .03086 .0308	.000437	.5 1 .4 .3 .7 .8 1.

Conditional logit Interpretation: The signs on the intercepts indicating that, holding other variables constant, people's general preference (+:prefer; -: not prefer) over that choice compared to the reference choice, which is PPk\_Stk. The negative sign on the price coefficient indicating that as the price of one choice increases, the individual is less likely to buy that choice (Holding other variables constant).

Multinomial Interpretation: (Holding other variables constant) The signs on the income indicating that, holding other variables constant, people's preference when they have more income (+:more prefer; -: less prefer) over that choice compared to the reference group.

Clogit margin: Each unit increase in price of an alternative decrease the probability of selecting that alternative and increases the probability of the other alternatives, by certain percent.

Mlogit margin: Each unit increase in the income increases/decreases (as the sign) the probability of selecting alternative j by certain percent.

#### Exercise 5

```
. hausman mix_logit mix_logit_alt

—— Coefficients ——
(b) (B) (b-B) sqrt(diag(V_b-V_B))
mix_logit mix_logit_~t Difference S.E.

Price -6.659669 -6.662263 .0025942 .

b = consistent under Ho and Ha; obtained from asclogit
B = inconsistent under Ha, efficient under Ho; obtained from asclogit

Test: Ho: difference in coefficients not systematic

chi2(1) = (b-B)'[(V_b-V_B)^(-1)](b-B)
= -0.01 chi2<0 ==> model fitted on these data fails to meet the asymptotic assumptions of the Hausman test; see suest for a generalized test
```

hypotheses fail to reject and state that IIA is hold.

# HW 4

Exercise 1

we reject the null Delta(timetrnd) = 1 unit
Span(timetrnd) = 15 periods

(personid\*timetrnd uniquely identifies each observation)

Distribution of T_i:	min	5%	25%	50%	75%	95%	max
_	1	2	5	8	11	1.4	15

Freq.	Percent	Cum.	Pattern
93	4.27	4.27	111111111111111
46	2.11	6.38	1111111
45	2.07	8.45	1111111111
44	2.02	10.47	111111111
43	1.97	12.44	.111111111111111
42	1.93	14.37	11111111111111
36	1.65	16.02	111111111111
35	1.61	17.63	1111111111111
30	1.38	19.01	11111
1764	80.99	100.00	(other patterns)
2178	100.00		XXXXXXXXXXXXX

# Unbalanced panel

Exercise 2&3
Panel Methods

Variable	re	be	fe	fd
educ	.10793802	.09309987	.12366202	
	.00338321	.00466849	.00576187	
potexper	.03876449	.02599874	.03856107	
	.00071784	.00360489	.00075848	
educ_D				.04310838
				.01517918
potexper_D				.05353695
				.00292212
_cons	.56352057	.84556882	.40680158	
	.0438846	.07701791	.0717348	

legend: b/se

# Coefficients are close for with-in and random effect, not so close for others

# Exercise 4

Individual Fixed effect w/ robust se

Variable	idfix	idfix_ti~v
educ	.21221346	
potexper	.02754153	
	.00366892	
ability		08042965
-		.04629738
mothered		.01284107
		.01966345
fathered		.01322399
		.01818227
brknhome		.13128376
		.11424438
siblings		.0444888
_		.02111306
cons	5690275	55284123
_	.31318466	.24296302
	L	

legend: b/se