Serial number: 401509213955

personal

8 . \*\*\*\*import the database\*\*\*\*

6 . \*\*\*\*set the working dictionary\*\*\*\*\*

(set more preference recorded)

5 . set scrollbufsize 2000000

Special Edition

9 . import excel "C:\Users\cuiti\Master Study\Second Semester\econometrics\TIANYUCUI\ps5\data1.xlsx > ("data1") firstrow clear

StataCorp

10 . drop A

Notes:

3 . clear all

4 . set more off, perm

11 . save "C:\Users\cuiti\Desktop\data1.dta", replace file C:\Users\cuiti\Desktop\data1.dta saved

12 .

13 . \*\*\*\*\*import the data2\*\*\*\*

14 . import excel "C:\Users\cuiti\Master Study\Second Semester\econometrics\TIANYUCUI\ps5\data2.xls; > ("data2") firstrow clear

15 . drop A

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16 . save "C:\Users\cuiti\Desktop\data2.dta",replace
 file C:\Users\cuiti\Desktop\data2.dta saved

17 . \*\*\*\*\*\*\*merge the database\*\*\*\*\*

18 . merge 1:m hhid using "C:\Users\cuiti\Desktop\data1.dta"

Result	#	of	obs.	
not matched			0	
matched		4	,470	(_merge==3)

20 .summarize PBB\_Stk PHse\_Stk PImp\_Stk PPk\_Tub PHse\_Tub PPk\_Stk PFl\_Stk PGen\_Stl > ub PFl\_Tub

Max	Min	Std. Dev.	Mean	Obs	Variable
1.01 .64 2.3 1.24 1.27	.19 .19 .33 .98	.1203319 .1188312 .1146461 .0297261 .072455	.5432103 .4371477 .7807785 1.077409 .5686734	4,470 4,470 4,470 4,470 4,470	PBB_Stk PHse_Stk PImp_Stk PPk_Tub PHse_Tub
.67 1.16 .55 .98	.19 .95 .25 .5	.1505174 .0428952 .0351661 .0612116 .0140545	.5184362 1.01502 .3452819 .8250895 1.189376	4,470 4,470 4,470 4,470 4,470	PPk_Stk PF1_Stk PGen_Stk PSS_Tub PF1 Tub

22 . tabulate choice

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	

23 . tabulate Income choice

1				choice			
Income	1	2	3	4	5	6	7
2.5	19	4	0	2	6	0	16
7.5	117	54	13	34	19	2	27
12.5	196	106	41	44	23	9	40
17.5	318	100	27	111	21	5	54
22.5	292	123	34	154	123	2	41
27.5	195	94	9	67	18	6	24
32.5	209	84	28	64	54	4	49
37.5	132	34	17	29	23	1	15
42.5	125	33	33	23	6	20	27
47.5	83	22	23	16	7	17	6
55	47	30	11	32	7	3	12
67.5	19	4	1	8	6	2	7

87		10 10	3	1 8	0 2	1 2	0	
Tot	1,766	699	243	593	315	74	319	4

		choice		
Income	8	9	10	Total
2.5	1	2	0	50
7.5	6	22	1	295
12.5	8	25	3	495
17.5	19	20	2	677
22.5	36	30	8	843
27.5	25	34	4	476
32.5	19	33	5	549
37.5	14	9	5	279
42.5	21	14	1	303
47.5	9	2	3	188
55	42	17	0	201
67.5	3	0	1	51
87.5	0	12	0	37
130	О	5	0	26
Total	203	225	33	4,470

24.

25 .
26 . \*\*\*\*\*question2\*\*\*\*\*

27 . \*\*rename the product and price\*\*\*

28 . drop hhid Fs3\_4 Fs5 Fam\_Size college whtcollar retired \_merge

 $29 \cdot gen n = 4410$ 

30 . gen  $v1 = _n$ 

31 . rename (PBB\_Stk PHse\_Stk PImp\_Stk PPk\_Tub PHse\_Tub PPk\_Stk PFl\_Stk PGen\_Stk > PFl\_Tub )(c1 c2 c3 c4 c5 c6 c7 c8 c9 c10)

32 . reshape long c,i(v1) j(price) (note: j = 1 2 3 4 5 6 7 8 9 10)

Data	wide	->	long	
Number of obs.	4470	->	44700	
Number of variables	14	->	6	
<pre>j variable (10 values) xij variables:</pre>		->	price	
	c1 c2 c10	->	С	

33 . gen dum = cond(price == choice, 1, 0)

34 .
35 . asclogit dum c,case(v1) alternatives(price)

Iteration 0: log likelihood = -8365.7143 Iteration 1: log likelihood = -8276.8204 Iteration 2: log likelihood = -8276.6717 Iteration 3: log likelihood = -8276.6717

Alternative-specific conditional logit Number of obs = 44,700 Case variable: v1 Number of cases = 4470

Wald chi2(1) = 18.28 Prob > chi2 = 0.0000 Log likelihood = -8276.6717

	dum	Coef.	Std. Err.	Z	P> z	[95% Conf.	Interval]
price	С	.8185517	.1914352	4.28	0.000	. 4433457	1.193758
1		(base alte	rnative)				
2	_cons	8410392	.048923	-17.19	0.000	9369265	7451519
3	_cons	-2.179654	.0826712	-26.37	0.000	-2.341687	-2.017622
4	_cons	-1.528427	.1126834	-13.56	0.000	-1.749282	-1.307572
5	_cons	-1.746435	.0614473	-28.42	0.000	-1.86687	-1.626001
6	_cons	-3.157418	.1187018	-26.60	0.000	-3.390069	-2.924767
7	_cons	-2.096739	.1086035	-19.31	0.000	-2.309598	-1.883881
8	_cons	-2.000621	.0833897	-23.99	0.000	-2.164062	-1.83718
9	_cons	-2.291235	.0890448	-25.73	0.000	-2.465759	-2.11671
10	_cons	-4.508496	.2147651	-20.99	0.000	-4.929428	-4.087564

36 . est sto c\_logit

## 37 . estat mfx

Pr(choice = 1|1 selected) = .39522496

variable	dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	X
С							
1	.195652	.045785	4.27	0.000	.105914	.28539	.54321
2	050556	.011935	-4.24	0.000	073949	027163	.43715
3	017562	.004238	-4.14	0.000	025868	009256	.78078
4	042939	.010183	-4.22	0.000	062897	022981	1.0774
5	022768	.005452	-4.18	0.000	033454	012082	.56867
6	005329	.001379	-3.87	0.000	008032	002627	.51844
7	023113	.005558	-4.16	0.000	034006	01222	1.015
8	014707	.00359	-4.10	0.000	021743	00767	.34528
9	016288	.003955	-4.12	0.000	024039	008537	.82509
10	00239	.000696	-3.43	0.001	003755	001025	1.1894

Pr(choice = 2|1 selected) = **.15627201** 

variable		dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	Х
С								_
	1	050556	.011935	-4.24	0.000	073949	027163	.54321
	2	.107927	.025399	4.25	0.000	.058145	.157708	.43715
	3	006944	.001685	-4.12	0.000	010247	003642	.78078
	4	016978	.00405	-4.19	0.000	024915	009041	1.0774
	5	009002	.002168	-4.15	0.000	013252	004753	.56867
	6	002107	.000548	-3.85	0.000	003181	001034	.51844
	7	009139	.00221	-4.14	0.000	01347	004808	1.015
	8	005815	.001427	-4.07	0.000	008612	003018	.34528
	9	00644	.001572	-4.10	0.000	009522	003359	.82509
1	0	000945	.000276	-3.42	0.001	001487	000403	1.1894

Pr(choice = 3|1 selected) = .05428579

variable	dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	X
c							
1	017562	.004238	-4.14	0.000	025868	009256	.54321
2	006944	.001685	-4.12	0.000	010247	003642	.43715
3	.042023	.010107	4.16	0.000	.022215	.061832	.78078
4	005898	.001437	-4.10	0.000	008715	003081	1.0774
5	003127	.000769	-4.07	0.000	004635	00162	.56867
6	000732	.000194	-3.78	0.000	001112	000352	.51844
7	003175	.000784	-4.05	0.000	004711	001638	1.015
8	00202	.000506	-3.99	0.000	003012	001028	.34528
9	002237	.000557	-4.01	0.000	00333	001145	.82509
10	000328	.000097	-3.37	0.001	000519	000137	1.1894

Pr(choice =								
variable		dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	X
c								
	1	042939	.010183	-4.22	0.000	062897	022981	.5432
	2	016978	.00405	-4.19	0.000	024915	009041	.4371
	3	005898	.001437	-4.10	0.000	008715	003081	.7807
	4	.094224	.022265	4.23	0.000	.050585	.137864	1.077
	5	007646	.001849	-4.13	0.000	011271	004021	.5686
	6	00179	.000467	-3.83	0.000	002705	000874	.5184
	7	007762	.001885	-4.12	0.000	011457	004067	1.01
	8	004939	.001883	-4.12 -4.06	0.000	007325	002553	
								. 3452
	9	00547 000803	.001341 .000235	-4.08 -3.41	0.000 0.001	008098 001264	002842 000341	.8250 1.189
er(choico -	- 51	1 soloated	) = .070376	:74				
·	- 51							
variable 		dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	X
2	,	000766	005450	4 10	0 000	000454	010000	F 400
	1	022768	.005452	-4.18	0.000	033454	012082	. 5432
	2	009002	.002168	-4.15	0.000	013252	004753	.4371
	3	003127	.000769	-4.07	0.000	004635	00162	.7807
	4	007646	.001849	-4.13	0.000	011271	004021	1.077
	5	.053553	.012782	4.19	0.000	.028501	.078604	.5686
	6	000949	.00025	-3.80	0.000	001438	00046	.5184
	7	004116	.001009	-4.08	0.000	006093	002138	1.01
	8	002619	.000651	-4.02	0.000	003895	001342	.3452
	0 1	002619	.000651					.8250
		0000	000010	4 0 4				
	9	0029 000426	.000718 .000126	-4.04 -3.39	0.000 0.001	004307 000672	001494 000179	
1	9.0	000426	.000126	-3.39				1.189
2r(choice =	9.0	000426		-3.39		000672		
2r(choice = variable	9.0	000426 1 selected	.000126	-3.39 359	0.001	000672	000179	1.189
2 Pr(choice = variable	9 .0	000426  1 selected dp/dx	.000126 ) = .016473 Std. Err.	-3.39 359	0.001 P> z	000672 [ 95%	000179	1.189 X
2r(choice = variable	9 .0	000426 1 selected dp/dx 005329	.000126 ) = .016473 Std. Err.	-3.39 2 -3.87	0.001 P> z	000672 [ 95% 008032	000179 C.I. ]	1.189 X
2r(choice = variable	9 .0 = 6	000426  1 selected dp/dx005329002107	.000126 ) = .016473 Std. Err001379 .000548	-3.39 z -3.87 -3.85	0.001  P> z   0.000 0.000	000672 [ 95% 008032 003181	000179  C.I. ] 002627001034	1.189 X .5432 .4371
Pr(choice = variable	9 .0	000426  1 selected dp/dx 005329002107000732	.000126 ) = .016473 Std. Err001379 .000548 .000194	-3.39 z -3.87 -3.85 -3.78	0.001  P> z   0.000 0.000 0.000	000672 [ 95% 008032 003181 001112	000179  C.I. ] 002627001034000352	1.189 X .5432 .4371 .7807
Pr(choice = variable	9 .0 = 6	000426  1 selected dp/dx005329002107	.000126 ) = .016473 Std. Err001379 .000548	-3.39 z -3.87 -3.85	0.001  P> z   0.000 0.000	000672 [ 95% 008032 003181	000179  C.I. ] 002627001034	1.189 X .5432 .4371 .7807
2r(choice = variable	9 .0	000426  1 selected dp/dx 005329002107000732	.000126 ) = .016473 Std. Err001379 .000548 .000194	-3.39 z -3.87 -3.85 -3.78	0.001  P> z   0.000 0.000 0.000	000672 [ 95% 008032 003181 001112	000179  C.I. ] 002627001034000352	1.189 X .5432 .4371 .7807
2r(choice = variable	9 .0	000426  1 selected dp/dx 00532900210700073200179000949	.000126 ) = .016473 Std. Err001379 .000548 .000194 .000467 .00025	-3.39  z  -3.87 -3.85 -3.85 -3.83 -3.80	0.001  P> z   0.000 0.000 0.000 0.000	000672 [ 95% 008032 003181 001112 002705 001438	000179  C.I. ] 00262700103400035200087400046	1.189 X .5432 .4371 .7807 1.077
Pr(choice = variable	9 .0 = 6  1 2 3 4 5 6	000426  1 selected dp/dx 00532900210700073200179000949 .013262	.000126 ) = .016473 Std. Err001379 .000548 .000194 .000467 .00025 .003421	-3.39  z  -3.87 -3.85 -3.85 -3.83 -3.80 3.88	0.001  P> z   0.000 0.000 0.000 0.000 0.000 0.000	000672 [ 95% 008032 003181 001112 002705 001438 .006557	000179  C.I. ] 00262700103400035200087400046 .019967	1.189 X .5432 .4371 .7807 1.077 .5686 .5184
Pr(choice = variable	9 .0 = 6  1 2 3 4 5 6 7	000426  1 selected dp/dx 00532900210700073200179000949 .013262000963	.000126 ) = .016473 Std. Err001379 .000548 .000194 .000467 .00025 .003421 .000254	-3.39  z  -3.87 -3.85 -3.85 -3.83 -3.80 3.88 -3.79	0.001  P> z   0.000 0.000 0.000 0.000 0.000 0.000 0.000	000672 [ 95% 008032 003181 001112 002705 001438 .006557 001462	000179  C.I. ] 00262700103400035200087400046 .019967000465	1.189 X .5432 .4371 .7807 1.077 .5686 .5184
Pr(choice = variable	9 0 1 2 3 4 5 6 6 7 8	000426  1 selected dp/dx 00532900210700073200179000949 .013262000963000613	.000126 ) = .016473 Std. Err001379 .000548 .000194 .000467 .00025 .003421 .000254 .000164	-3.39  z  -3.87 -3.85 -3.85 -3.83 -3.80 3.88 -3.79 -3.74	0.001  P> z   0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	000672 [ 95% 008032 003181 001112 002705 001438 .006557 001462 000934	000179  C.I. ] 00262700103400035200087400046 .019967000465000292	X .5432 .4371 .7807 1.077 .5686 .5184 1.01
2r(choice = variable	9 .0 = 6  1 2 3 4 5 6 7	000426  1 selected dp/dx 00532900210700073200179000949 .013262000963	.000126 ) = .016473 Std. Err001379 .000548 .000194 .000467 .00025 .003421 .000254	-3.39  z  -3.87 -3.85 -3.85 -3.83 -3.80 3.88 -3.79	0.001  P> z   0.000 0.000 0.000 0.000 0.000 0.000 0.000	000672 [ 95% 008032 003181 001112 002705 001438 .006557 001462	000179  C.I. ] 00262700103400035200087400046 .019967000465	1.189
Pr(choice = variable	9 0 1 2 3 4 5 6 7 8 9 0	000426  1 selected dp/dx 00532900210700073200179000949 .0132620009630006130006790001	.000126 ) = .016473 Std. Err001379 .000548 .000194 .000467 .00025 .003421 .000254 .000164 .000181 .000031	-3.39  z  -3.87 -3.85 -3.85 -3.80 -3.80 -3.79 -3.74 -3.76 -3.21	0.001  P> z   0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	000672 [ 95% 008032 003181 001112 002705 001438 .006557 001462 000934 001033	000179 00262700103400035200087400046 .019967000465000292000325	X .5432 .4371 .7807 1.077 .5686 .5184 1.01 .3452 .8250
Pr(choice = variable  a  Pr(choice = variable = variabl	9 0 1 2 3 4 5 6 7 8 9 0	000426  1 selected dp/dx 00532900210700073200179000949 .0132620009630006130006790001	.000126 ) = .016473 Std. Err001379 .000548 .000194 .000467 .00025 .003421 .000254 .000164 .000181	-3.39  z  -3.87 -3.85 -3.85 -3.80 -3.80 -3.79 -3.74 -3.76 -3.21	0.001  P> z   0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	000672  [ 95% 008032003181001112002705001438 .00655700146200093400103300016	000179 00262700103400035200087400046 .019967000465000292000325	1.189 X .5432 .4371 .7807 1.077 .5686 .5184 1.01 .3452 .8250
2r(choice = variable  2 2r(choice = variable) 2 2r(choice = variable)	9 0 1 2 3 4 5 6 7 8 9 0	000426  1 selected dp/dx 00532900210700073200179000949 .0132620009630006130006790001	.000126 ) = .016473 Std. Err001379 .000548 .000194 .000467 .00025 .003421 .000254 .000164 .000181 .000031	-3.39  z  -3.87 -3.85 -3.85 -3.83 -3.80 3.88 -3.79 -3.74 -3.76 -3.21	0.001  P> z   0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	000672  [ 95% 008032003181001112002705001438 .00655700146200093400103300016	000179 00262700103400035200087400046 .019967000465000292000325000039	X .5432 .4371 .7807 1.077 .5686 .5184 1.01 .3452 .8250 1.189
Pr(choice = variable  2  Pr(choice = variable = variable = variable	9 0 1 2 3 4 5 5 6 7 7 8 9 0 0 0 1 = 7	000426  1 selected dp/dx 00532900210700073200179000949 .0132620009630006130006790001  1 selected dp/dx	.000126 ) = .016473 Std. Err.  .001379 .000548 .000194 .000467 .00025 .003421 .000254 .000164 .000181 .000031 ) = .071444 Std. Err.	-3.39  z  -3.87 -3.85 -3.85 -3.83 -3.80 -3.79 -3.74 -3.76 -3.21	0.001  P> z   0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 P> z	000672  [ 95% 008032003181001112002705001438 .00655700146200093400103300016	000179  C.I. ] 00262700103400035200046 .019967000465000292000325000039	X .5432 .4371 .7807 1.077 .5686 .5184 1.01 .3452 .8250 1.189
2 Pr(choice = variable	9 0 1 2 3 4 5 6 6 7 8 8 9 0 0 1 1 1 1 1	000426  1 selected dp/dx 00532900210700073200179000949 .0132620006130006790001  1 selected dp/dx 023113	.000126 ) = .016473 Std. Err.  .001379 .000548 .000194 .000467 .00025 .003421 .000254 .000164 .000181 .000031 ) = .071444 Std. Err.	-3.39  z  -3.87 -3.85 -3.85 -3.78 -3.80 3.88 -3.79 -3.74 -3.76 -3.21	0.001  P> z   0.000 0.000 0.000 0.000 0.000 0.000 0.000 P> z	000672  [ 95% 008032003181001112002705001438 .00655700146200093400103300016	000179  C.I. ] 002627001034000352000874000465000292000325000039	X .5432 .4371 .7807 1.077 .5686 .5184 1.01 .3452 .8250 1.189
Pr(choice = variable  Pr(choice = variable =	9 0 1 2 3 4 5 5 6 7 7 8 9 0 0 0 1 = 7	000426  1 selected dp/dx 00532900210700073200179000949 .0132620009630006130006790001  1 selected dp/dx	.000126 ) = .016473 Std. Err.  .001379 .000548 .000194 .000467 .00025 .003421 .000254 .000164 .000181 .000031 ) = .071444 Std. Err.	-3.39  z  -3.87 -3.85 -3.85 -3.83 -3.80 -3.79 -3.74 -3.76 -3.21	0.001  P> z   0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 P> z	000672  [ 95% 008032003181001112002705001438 .00655700146200093400103300016	000179  C.I. ] 00262700103400035200046 .019967000465000292000325000039	X .5432 .4371 .7807 1.077 .5686 .5184 1.01 .3452 .8250 1.189
Pr(choice = variable  2  Pr(choice = variable = variabl	9 0 1 2 3 4 5 6 6 7 8 8 9 0 0 1 2 2 1 2 2 1 2 2 1 2 1 2 1 2 1 2 1	000426  1 selected dp/dx 00532900210700073200179000949 .0132620006130006790001  1 selected dp/dx 023113	.000126 ) = .016473 Std. Err.  .001379 .000548 .000194 .000467 .00025 .003421 .000254 .000164 .000181 .000031 ) = .071444 Std. Err.  .005558 .00221	-3.39  z  -3.87 -3.87 -3.85 -3.78 -3.83 -3.79 -3.74 -3.76 -3.21  2  -4.16 -4.14	P> z   0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.001  P> z	000672  [ 95% 008032003181001112002705001438 .00655700146200093400103300016	000179  C.I. ] 002627001034000352000874000465000292000325000039	X .5432 .4371 .7807 1.077 .5686 .5184 1.01 .3452 .8250 1.189
Pr(choice = variable  2  Pr(choice = variable = variabl	9 0 1 1 2 3 4 4 5 6 6 7 8 8 9 0 0 1 2 3 3 3 1 2 3 3 3 3	000426  1 selected dp/dx 00532900210700073200179000949 .0132620006130006790001  1 selected dp/dx 023113009139003175	.000126 ) = .016473 Std. Err.  .001379 .000548 .000194 .000467 .00025 .003421 .000254 .000164 .000181 .000031 ) = .071444 Std. Err.  .005558 .00221 .000784	-3.39  z  -3.87 -3.87 -3.85 -3.78 -3.80 3.88 -3.79 -3.74 -3.76 -3.21  2  -4.16 -4.14 -4.05	0.001  P> z   0.000 0.000 0.000 0.000 0.000 0.000 0.001  P> z   0.000 0.000 0.000	000672  [ 95% 008032003181001112002705001438 .00655700146200093400103300016	000179  C.I. ] 002627001034000352000874000465000292000325000039  C.I. ] 01222004808001638	X .5432 .4371 .7807 1.077 .5686 .5184 1.01 .3452 .8250 1.189
1 Pr(choice = variable  2 1 Pr(choice = variable	9 0 1 2 3 4 5 6 6 7 8 8 9 0 0 1 2 3 4 4 1 2 3 3 4 4	000426  1 selected dp/dx 00532900210700073200179000949 .0132620009630006130006790001  1 selected dp/dx 023113009139003175007762	.000126 ) = .016473 Std. Err.  .001379 .000548 .000194 .000467 .00025 .003421 .000254 .000164 .000181 .000031 ) = .071444 Std. Err.  .005558 .00221 .000784 .001885	-3.39  2  -3.87 -3.87 -3.85 -3.78 -3.80 3.88 -3.79 -3.74 -3.76 -3.21  2  -4.16 -4.14 -4.05 -4.12	0.001  P> z   0.000 0.000 0.000 0.000 0.000 0.000 0.001  P> z   0.000 0.000 0.000 0.000	000672  [ 95% 008032003181001112002705001438 .00655700146200093400103300016  [ 95% 03400601347004711011457	000179  C.I. ] 002627001034000352000874000465000292000325000039  C.I. ] 01222004808001638004067	X .5432 .4371 .7807 .5686 .5184 1.01 .3452 .8250 1.189
Pr(choice = variable  2  Pr(choice = variable = variabl	9 0 1 1 2 3 4 5 6 6 7 8 8 9 0 0 1 2 3 4 4 5 5	000426  1 selected dp/dx 00532900210700073200179000949 .0132620009630006130006790001  1 selected dp/dx 023113009139003175007762004116	.000126 ) = .016473 Std. Err.  .001379 .000548 .000194 .000467 .00025 .003421 .000254 .000164 .000181 .000031 ) = .071444 Std. Err.  .005558 .00221 .000784 .001885 .001009	-3.39  2  -3.87 -3.87 -3.85 -3.78 -3.80 3.88 -3.79 -3.74 -3.76 -3.21  2  -4.16 -4.14 -4.05 -4.12 -4.08	0.001  P> z   0.000 0.000 0.000 0.000 0.000 0.000 0.001  P> z   0.000 0.000 0.000 0.000 0.000	000672  [ 95% 008032003181001112002705001438 .00655700146200093400103300016  [ 95% 03400601347004711011457006093	000179  C.I. 002627001034000352000874000465000292000325000039  C.I. 01222004808001638004067002138	X .5432 .4371 .7807 .5686 .5184 1.01 .3452 .8250 1.189
Pr(choice = variable  2  1  Pr(choice = variable = vari	9 0 1 2 3 4 5 6 7 8 8 9 0 1 2 3 4 4 5 5 6	000426  1 selected dp/dx 00532900210700073200179000949 .0132620009630006130006790001  1 selected dp/dx 023113009139003175007762004116000963	.000126 ) = .016473 Std. Err.  .001379 .000548 .000194 .000467 .00025 .003421 .000254 .000181 .000031 ) = .071444 Std. Err.  .005558 .00221 .000784 .001885 .001009 .000254	-3.39  2  -3.87 -3.85 -3.85 -3.83 -3.80 3.88 -3.79 -3.74 -3.76 -3.21  2  -4.16 -4.14 -4.05 -4.12 -4.08 -3.79	0.001  P> z   0.000 0.000 0.000 0.000 0.000 0.000 0.001  P> z   0.000 0.000 0.000 0.000 0.000 0.000 0.000	000672  [ 95% 008032003181001112002705001438 .00655700146200093400103300016  [ 95% 03400601347004711011457006093001462	000179  C.I. 002627001034000352000874000465000292000325000039  C.I. 01222004808001638004067002138000465	X .5432 .4371 .7807 1.077 .5686 .5184 1.01 .3452 .8250 1.189  X  .5432 .4371 .7807 1.077 .5686 .5184
Pr(choice = variable  2  1  Pr(choice = variable)  2	9 0 1 1 2 3 4 5 6 6 7 8 9 0 1 2 3 4 5 6 6 7	000426  1 selected dp/dx 00532900210700073200179000949 .0132620009630006130006790001  1 selected dp/dx 023113009139003175007762004116000963 .054303	.000126 ) = .016473 Std. Err.  .001379 .000548 .000194 .000467 .00025 .003421 .000254 .000164 .000181 .000031 ) = .071444 Std. Err.  .005558 .00221 .000784 .001885 .001009 .000254 .01301	-3.39  2  -3.87 -3.87 -3.85 -3.78 -3.80 3.88 -3.79 -3.74 -3.76 -3.21  2  -4.16 -4.14 -4.05 -4.12 -4.08 -3.79 4.17	0.001  P> z   0.000 0.000 0.000 0.000 0.000 0.000 0.001  P> z   0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	000672  [ 95% 008032003181001112002705001438 .00655700146200093400103300016  [ 95% 03400601347004711011457006093001462 .028803	000179  C.I. 002627001034000352000874000465000292000325000039  C.I. 01222004808001638004067002138000465 .079803	X .5432 .4371 .7807 1.077 .5686 .5184 1.01 .3452 .8250 1.189  X .5432 .4371 .7807 1.077 .5686 .5184 1.01
1 Pr(choice = variable  2 1 Pr(choice = variable  variable	9 0 1 2 3 4 5 6 7 8 8 9 0 1 2 3 4 4 5 5 6	000426  1 selected dp/dx 00532900210700073200179000949 .0132620009630006130006790001  1 selected dp/dx 023113009139003175007762004116000963	.000126 ) = .016473 Std. Err.  .001379 .000548 .000194 .000467 .00025 .003421 .000254 .000181 .000031 ) = .071444 Std. Err.  .005558 .00221 .000784 .001885 .001009 .000254	-3.39  2  -3.87 -3.85 -3.85 -3.83 -3.80 3.88 -3.79 -3.74 -3.76 -3.21  2  -4.16 -4.14 -4.05 -4.12 -4.08 -3.79	0.001  P> z   0.000 0.000 0.000 0.000 0.000 0.000 0.001  P> z   0.000 0.000 0.000 0.000 0.000 0.000 0.000	000672  [ 95% 008032003181001112002705001438 .00655700146200093400103300016  [ 95% 03400601347004711011457006093001462	000179  C.I. 002627001034000352000874000465000292000325000039  C.I. 01222004808001638004067002138000465	X .5432 .4371 .7807 1.077 .5686 .5184 1.01 .3452 .8250 1.189

	10	000432	.000128	-3.38	0.001	000683	000181	1.1894
Pr(choice	= 8	1 selected	) = .04545	594				
variable		dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	X
c								
J	1	014707	.00359	-4.10	0.000	021743	00767	.54321
	2	005815	.001427	-4.07	0.000	008612	003018	.43715
	3	00202	.000506	-3.99	0.000	003012	001028	.78078
	4	004939	.001217	-4.06	0.000	007325	002553	1.0774
	5	002619	.000651	-4.02	0.000	003895	001342	.56867
	6	000613	.000164	-3.74	0.000	000934	000292	.51844
	7	002658	.000664	-4.01	0.000	003959	001358	1.015
	8	.035519	.00864	4.11	0.000	.018585	.052454	.34528
	9	001873	.000472	-3.97	0.000	002798	000949	.82509
	10	000275	.000082	-3.34	0.001	000436	000114	1.1894
	= 9	<u> </u>	) = .050347	771				· · · · · · · · · · · · · · · · · · ·
variable		dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	X
С								
	1	016288	.003955	-4.12	0.000	024039	008537	.54321
	2	00644	.001572	-4.10	0.000	009522	003359	.43715
	3	002237	.000557	-4.01	0.000	00333	001145	.78078
	4	00547	.001341	-4.08	0.000	008098	002842	1.0774
	5	0029	.000718	-4.04	0.000	004307	001494	.56867
	6	000679	.000181	-3.76	0.000	001033	000325	.51844
	7	002944	.000731	-4.03	0.000	004378	001511	1.015
	8	001873	.000472	-3.97	0.000	002798	000949	.34528
	9	.039137	.009469	4.13	0.000	.020578	.057696	.82509
	10	000304	.000091	-3.36	0.001	000482	000127	1.1894
Pr(choice	= 10	) 1 selecte	d) = .00738	8816				
variable		dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	X
c								
	1	00239	.000696	-3.43	0.001	003755	001025	.54321
	2	000945	.000276	-3.42	0.001	001487	000403	.43715
	3	000328	.000097	-3.37	0.001	000519	000137	.78078
	4	000803	.000235	-3.41	0.001	001264	000341	1.0774
	5	000426	.000126	-3.39	0.001	000672	000179	.56867
	6	0001	.000031	-3.21	0.001	00016	000039	.51844
	7	000432	.000128	-3.38	0.001	000683	000181	1.015
	8	000275	.000082	-3.34	0.001	000436	000114	.34528
	9	000304	.000091	-3.36	0.001	000482	000127	.82509
	10	.006003	.001745	3.44	0.001	.002583	.009423	1.1894

38 .

39 . asclogit dum, case(v1) alternatives(price) casevar(Income)

Iteration 0: log likelihood = -8328.1129 Iteration 1: log likelihood = -8236.9407 Iteration 2: log likelihood = -8236.757
Iteration 3: log likelihood = -8236.757

Alternative-specific conditional logit Number of obs = 44,700 Case variable: v1 Number of cases = 4470

Wald chi2(9) = 101.55 Prob > chi2 = 0.0000 Log likelihood = -8236.757

	dum	Coef.	Std. Err.	Z	P> z	[95% Conf.	. Interval]
1		(base alte	rnative)				
2							
	Income _cons	0030887 8453241	.003114 .0931354	-0.99 -9.08	0.321 0.000	009192 -1.027866	.0030145 662782
3							
	Income _cons	.0145862 -2.399858	.0038255 .1335802	3.81 -17.97	0.000 0.000	.0070885 -2.66167	.022084 -2.138045
4							
	Income _cons	.0040504 -1.201326	.0030926 .0971021	1.31 -12.37	0.190 0.000	0020109 -1.391643	.0101118 -1.01101
5							
	Income _cons	0012536 -1.690582	.0042024 .1269952	-0.30 -13.31	0.765 0.000	0094901 -1.939488	.0069829 -1.441676
6							
	Income _cons	.030612 -4.139767	.004674 .210989	6.55 -19.62	0.000 0.000	.0214512 -4.553298	.0397729 -3.726236
7							
	Income _cons	0069326 -1.531042	.0044161 .1280434	-1.57 -11.96	0.116 0.000	015588 -1.782002	.0017228 -1.280081
8							
	Income _cons	.0228862 -2.848352	.0036217 .1393848	6.32 -20.44	0.000 0.000	.0157878 -3.121541	.0299845 -2.575163
9							
	Income _cons	.017743 -2.575597	.0037623 .13614	4.72 -18.92	0.000	.010369 -2.842427	.0251169 -2.308768
10							
	Income _cons	.0107909 -4.28227	.01013 .3 <b>4</b> 5792	1.07 -12.38	0.287 0.000	0090636 -4.96001	.0306454 -3.60453

40 . est sto m\_logit

## 41 . estat mfx

Pr(choice = 1|1 selected) = .39801714

variable	dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	X
casevars Income	001062	.000487	-2.18	0.029	002016	000108	27.664
Pr(choice = 2	1 selected	) = .156918	316				
variable	dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	X
casevars Income	000904	.000378	-2.39	0.017	001645	000162	27.664
Pr(choice = 3	1 selected	.054062	295				
variable	dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	X
casevars Income	.000644	.000183	3.53	0.000	.000286	.001002	27.664
Pr(choice = 4	1 selected	) = .133916	588				
variable	dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	X
casevars Income	.000185	.000329	0.56	0.574	00046	.00083	27.664
Pr(choice = 5	1 selected	.070897	742				
variable	dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	Х
casevars Income	000278	.000264	-1.06	0.291	000795	.000238	27.664
Pr(choice = 6	1 selected	.014784	143				
	dp/dx	Std. Err.	z	P> z	[ 95%	C.I. ]	Х
variable	1						
casevars Income	.000413	.000066	6.22	0.000	.000283	.000543	27.664
casevars	.000413			0.000	.000283	.000543	27.664
casevars Income	.000413			0.000 P> z		.000543	<b>27.664</b>

Pr(choice = 8|1 selected) = .04343487

variable	dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	X
casevars Income	.000878	.000138	6.38	0.000	.000608	.001148	27.664
Pr(choice = 9	1 selected	.049488	33				
variable	dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	X
casevars Income	.000746	.000164	4.55	0.000	.000425	.001067	27.664
Pr(choice = 10	) 1 selecte	ed) = .00740	936				
variable	dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	Х
casevars Income	.00006	.000074	0.82	0.413	000084	.000204	27.664

<sup>42 .</sup> 

Iteration 0: log likelihood = -8328.1129
Iteration 1: log likelihood = -8236.9407
Iteration 2: log likelihood = -8236.757
Iteration 3: log likelihood = -8236.757

Alternative-specific conditional logit Number of obs = 44,700 Case variable: v1 Number of cases = 4470

Alternative variable: price Alts per case: min = 10

avg = 10.0max = 10

	a	0 - 5				[050 Q C	T. I
	dum	Coef.	Std. Err.	Z	P> z	[95% Conf.	Interval
1		(base alte	rnative)				
2							
	Income	0030887	.003114	-0.99	0.321	009192	.0030145
	_cons	8453241	.0931354	-9.08	0.000	-1.027866	662782
3							
	Income	.0145862	.0038255	3.81	0.000	.0070885	.022084
	_cons	-2.399858	.1335802	-17.97	0.000	-2.66167	-2.138045
4							
	Income	.0040504	.0030926	1.31	0.190	0020109	.0101118
	_cons	-1.201326	.0971021	-12.37	0.000	-1.391643	-1.01101
5							
	Income	0012536	.0042024	-0.30	0.765	0094901	.0069829
	_cons	-1.690582	.1269952	-13.31	0.000	-1.939488	-1.441676
6							

<sup>43 . \*\*\*\*\*</sup>question3\*\*\*\*\*

<sup>44 .</sup> asclogit dum, case(v1) alternatives(price) casevar(Income)

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	Income cons	.030612 -4.139767	.004674 .210989	6.55 -19.62	0.000	.0214512 -4.553298	.0397729 -3.726236
7							
•	Income	0069326	.0044161	-1.57	0.116	015588	.0017228
	_cons	-1.531042	.1280434	-11.96	0.000	-1.782002	-1.280081
8							
	Income	.0228862	.0036217	6.32	0.000	.0157878	.0299845
	_cons	-2.848352	.1393848	-20.44	0.000	-3.121541	-2.575163
9							
	Income	.017743	.0037623	4.72	0.000	.010369	.0251169
	_cons	-2.575597	.13614	-18.92	0.000	-2.842427	-2.308768
10							
	Income	.0107909	.01013	1.07	0.287	0090636	.0306454
	_cons	-4.28227	.345792	-12.38	0.000	-4.96001	-3.60453

45 . est sto m\_logit

46 . estat mfx

Pr(choice = 1|1 selected) = .39801714

casevars Income	000278	.000264	-1.06	0.291	000795	.000238	27.664
variable	dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	X
Pr(choice = 5	1 selected	) = .070897	42				
Income	.000185	.000329	0.56	0.574	00046	.00083	27.664
variable	dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	X
Pr(choice = 4	1 selected	) = .133916	88				
casevars Income	.000644	.000183	3.53	0.000	.000286	.001002	27.664
variable	dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	X
Pr(choice = 3	1 selected	) = .054062	95				
casevars Income	000904	.000378	-2.39	0.017	001645	000162	27.664
variable	dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	X
Pr(choice = 2	1 selected	) = .156918	16				
Income	001062	.000487	-2.18	0.029	002016	000108	27.664
variable	ap/ax	Std. Err.	Z	P> z	[ 95% 	C.I. ]	X

Pr(choice = 6|1 selected) = .01478443

casevars Income	.00006	.000074	0.82	0.413	000084	.000204	27.664
variable	dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	X
Pr(choice = 1	0 1 selecte	d) = .00740	936				
casevars Income	.000746	.000164	4.55	0.000	.000425	.001067	27.664
variable	dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	X
Pr(choice = 9	1 selected	) = .049488	33				
casevars Income	.000878	.000138	6.38	0.000	.000608	.001148	27.664
variable	dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	X
Pr(choice = 8	1 selected	) = .043434	87				
casevars Income	000682	.000277	-2.47	0.014	001224	00014	27.664
variable	dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	X
Pr(choice = 7	1 selected	) = .071070	45				
casevars Income	.000413	.000066	6.22	0.000	.000283	.000543	27.664
variable	dp/dx	Std. Err.	Z	P> z	[ 95% 	C.I. ]	X

<sup>47 . \*\*\*\*</sup>question4-clogit\*\*\*\*

Iteration 0: log likelihood = -8328.1129 Iteration 1: log likelihood = -8236.9407
Iteration 2: log likelihood = -8236.757
Iteration 3: log likelihood = -8236.757

Alternative-specific conditional logit Number of obs = 44,700 Case variable: v1 Number of cases = 4470 Alternative variable: price Alts per case: min = 10

10 10.0 10 avg =

max =

Wald chi2(9) = 101.55 Prob > chi2 = 0.0000 Log likelihood = -8236.757

<sup>48 .</sup> asclogit dum, case(v1) alternatives(price) casevar(Income)

	dum	Coef.	Std. Err.		P> z	[95% Conf.	Interval]
1		(base alte	rnative)		· · · · · · · · · · · · · · · · · · ·	<del></del>	
2	Income _cons	0030887 8453241	.003114	-0.99 -9.08	0.321	009192 -1.027866	.0030145
3	Income _cons	.0145862 -2.399858	.0038255	3.81 -17.97	0.000	.0070885 -2.66167	.022084 -2.138045
4	Income _cons	.0040504 -1.201326	.0030926 .0971021	1.31 -12.37	0.190 0.000	0020109 -1.391643	.0101118
5	Income _cons	0012536 -1.690582	.0042024 .1269952	-0.30 -13.31	0.765 0.000	0094901 -1.939488	.0069829 -1.441676
6	Income _cons	.030612 -4.139767	.004674 .210989	6.55 -19.62	0.000	.0214512 -4.553298	.0397729 -3.726236
7	Income _cons	0069326 -1.531042	.0044161 .1280434	-1.57 -11.96	0.116 0.000	015588 -1.782002	.0017228 -1.280081
8	Income _cons	.0228862 -2.848352	.0036217	6.32 -20.44	0.000	.0157878 -3.121541	.02998 <b>4</b> 5 -2.575163
9	Income _cons	.017743 -2.575597	.0037623 .13614	4.72 -18.92	0.000	.010369 -2.842427	.0251169 -2.308768
10	Income _cons	.0107909 -4.28227	.01013 .345792	1.07 -12.38	0.287	0090636 -4.96001	.0306454

<sup>49 .</sup> est sto m\_logit

## 50 . estat mfx

Pr(choice = 1|1 selected) = .39801714

<pre>casevars    Income</pre>	000904	.000378	-2.39	0.017	001645	000162	27.664
variable	dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	X
Pr(choice = 2	1 selected	) = .156918	16				
casevars Income	001062	.000487	-2.18	0.029	002016	000108	27.664
variable	dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	X

Pr(choice = 3|1 selected) = .05406295

variable	dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	Х
casevars Income	.000644	.000183	3.53	0.000	.000286	.001002	27.664
Pr(choice = 4	1 selected	1) = .133916	588				
variable	dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	X
casevars Income	.000185	.000329	0.56	0.574	00046	.00083	27.664
Pr(choice = 5	1 selected	1) = .070897	142				
variable	dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	X
casevars Income	000278	.000264	-1.06	0.291	000795	.000238	27.664
Pr(choice = 6	1 selected	1) = .014784	143				
variable	dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	X
casevars Income	.000413	.000066	6.22	0.000	.000283	.000543	27.664
Pr(choice = 7	1 selected	1) = .071070	045				
variable	dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	Х
casevars Income	000682	.000277	-2.47	0.014	001224	00014	27.664
Pr(choice = 8	1 selected	1) = .043434	187				
variable	dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	X
casevars Income	.000878	.000138	6.38	0.000	.000608	.001148	27.664
Pr(choice = 9	1 selected	1) = .049488	333				
variable	dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	X
casevars Income	.000746	.000164	4.55	0.000	.000425	.001067	27.664
Pr(choice = 10	) 1 selecte	ed) = .00740	936				
variable	dp/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	X
casevars Income	.00006	.000074	0.82	0.413	000084	.000204	27.664

51 . \*\*\*\*\*question4-mlogit\*\*\*\*
52 . \*\*\*\*\*\*\*question5\*\*\*\*

53 . asmixlogit dum, case(v1) alternatives(price)casevar(Income)

Fitting fixed parameter model:

Fitting full model:

Iteration 0: log likelihood = -8236.757
Iteration 1: log likelihood = -8236.757

Number of obs = **44,700** Number of cases = **4,470** Alternative-specific mixed logit Case variable: v1

Alternative variable: price

Alts per case: min = 10 avg = 10.0 max = 10

Integration points: 0 Wald chi2(9) = 101.55Log likelihood = -8236.757 Prob > chi2 = 0.0000

	dum	Coef.	Std. Err.	Z	P> z	[95% Conf.	<pre>Interval]</pre>
1		(base alte	rnative)				
2							
	Income _cons	0030887 8453241	.003114 .0931354	-0.99 -9.08	0.321 0.000	009192 -1.027866	.0030145 662782
3							
	Income _cons	.0145862 -2.399858	.0038255 .1335802	3.81 -17.97	0.000 0.000	.0070885 -2.66167	.022084 -2.138045
4							
	Income _cons	.0040504 -1.201326	.0030926 .0971021	1.31 -12.37	0.190 0.000	0020109 -1.391643	.0101118 -1.01101
5							
	Income _cons	0012536 -1.690582	.0042024 .1269952	-0.30 -13.31	0.765 0.000	0094901 -1.939488	.0069829 -1.441676
6							
	Income _cons	.030612 -4.139767	.004674 .210989	6.55 -19.62	0.000 0.000	.0214512 -4.553298	.0397729 -3.726236
7							
	Income _cons	0069326 -1.531042	.0044161 .1280434	-1.57 -11.96	0.116 0.000	015588 -1.782002	.0017228 -1.280081
8							
	Income _cons	.0228862 -2.848352	.0036217 .1393848	6.32 -20.44	0.000 0.000	.0157878 -3.1215 <b>4</b> 2	.0299845 -2.575163
9							
	Income _cons	.017743 -2.575597	.0037623 .13614	4.72 -18.92	0.000	.010369 -2.842427	.0251169 -2.308768
10							
	Income _cons	.0107909 -4.28227	.01013 .345792	1.07 -12.38	0.287 0.000	0090636 -4.96001	.0306454 -3.60453

54 . estimate store mixlogit

55 . drop if choice == 10 (330 observations deleted)

56 . drop if price == 10(4,437 observations deleted)

57 . asmixlogit dum, casevar(Income) alternative(price) case(v1)

Fitting fixed parameter model:

Fitting full model:

Iteration 0: log likelihood = -8042.323 Iteration 1: log likelihood = -8042.323

Number of obs = 39,933 Number of cases = 4,437 Alternative-specific mixed logit Case variable: **v1** 

Alternative variable: price Alts per case: min = 9 9.0

avg = max = 9

Wald chi2(8) = 100.80 Prob > chi2 = 0.0000 

	dum	Coef.	Std. Err.	Z	P> z	[95% Conf.	Interval]	
1		(base alternative)						
2								
	Income	0030751	.0031072	-0.99	0.322	0091651	.0030149	
	_cons	8456842	.0929792	-9.10	0.000	-1.02792	6634482	
3								
	Income	.0145158	.0038165	3.80	0.000	.0070355	.021996	
	_cons	-2.397844	.1333487	-17.98	0.000	-2.659203	-2.136485	
4								
	Income	.0040315	.0030853	1.31	0.191	0020155	.0100786	
	_cons	-1.200813	.0969282	-12.39	0.000	-1.390789	-1.010837	
5								
	Income	001248	.004193	-0.30	0.766	0094661	.0069702	
	_cons	-1.690731	.1267778	-13.34	0.000	-1.939211	-1.442251	
6								
	Income	.0304769	.0046664	6.53	0.000	.0213309	.039623	
	_cons	-4.135554	.2107624	-19.62	0.000	-4.548641	-3.722468	
7								
	Income	006903	.0044072	-1.57	0.117	0155409	.0017349	
	_cons	-1.531811	.1278428	-11.98	0.000	-1.782378	-1.281244	
8								
	Income	.0227784	.0036143	6.30	0.000	.0156944	.0298623	
	_cons	-2.845132	.1391818	-20.44	0.000	-3.117924	-2.572341	
9								
	Income	.0176576	.0037539	4.70	0.000	.0103001	.025015	
	_cons	-2.573117	.1359163	-18.93	0.000	-2.839508	-2.306726	

- 58 . estimate store mixlogitpartial
- 59 . hausman mixlogitpartial mixlogit, allegs constant

Note: the rank of the differenced variance matrix (10) does not equal the number of coefficients tested (16); be sure this is what you expect, or there may be problems computing the test Examine the output of your estimators for anything unexpected and possibly consider scale variables so that the coefficients are on a similar scale.

		Coefficients				
		(b) mixlogitpa~l	(B) mixlogit	(b-B) Difference	sqrt(diag(V_b-V_B)) S.E.	
2	Income _cons	0030751 8456842	0030887 8453241	.0000136 00036		
3						
3	Income _cons	.0145158 -2.397844	.0145862 -2.399858	0000705 .0020135	:	
4						
	Income _cons	.0040315 -1.200813	.0040504 -1.201326	0000189 .0005133	•	
5						
	Income _cons	001248 -1.690731	0012536 -1.690582	5.62e-06 0001495		
6						
	Income _cons	.0304769 -4.135554	.030612 -4.139767	0001351 .0042128	· ·	
7						
	Income _cons	006903 -1.531811	0069326 -1.531042	.0000296 0007692	:	
8						
	Income _cons	.0227784 -2.845132	.0228862 -2.848352	0001078 .0032198		
9						
	Income _cons	.0176576 -2.573117	.017743 -2.575597	0000854 .0024806	:	

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

Test: Ho: difference in coefficients not systematic

end of do-file

61 .