Statistics/Data analysis

```
      name:  <unnamed>
       log:  C:\data\AsianBaro\logtrials1Entropy.smcl
  log type:  smcl
 opened on:  10 Sep 2024, 15:53:08

1 .
2 . *do file for Trials of Entropy with Ordinal Variables
3 . *filename Trials1ordinal.do
4 . * Wendy Olsen
5 . * grateful thanks to Mr Ziyang Zhou - Univ. of Manchester
6 . * Univ of Manchester 2024
7 .
8 . * PART 2  Trials of Ordered Probit Regression
9 . * Stata 18
10.
11.  ssc install estout
  checking estout consistency and verifying not already installed...
  all files already exist and are up to date.

12. ***Data cleaning***
13. cd "C:\data\AsianBaro"
  C:\data\AsianBaro

14. use "C:/data/AsianBaro/data/AsianBaro2019revForEntropy.dta", clear

15. tab income inc2_2
```

Household Income Decile	inc2_2 0	1	Total
Worst-Off	1,293	0	1,293
2	0	124	124
3	0	985	985
4	0	126	126
5	0	2,125	2,125
6	0	125	125
7	0	353	353
8	0	131	131
9	0	20	20
Best-Off	0	36	36
Total	1,293	4,025	5,318

```
16. list inc2_1 inc2_2 inc2_3 inc2_4 inc2_9 if edu1_1==1
```

	inc2_1	inc2_2	inc2_3	inc2_4	inc2_9
5.	1	1	1	1	0
24.	1	1	1	1	0
25.	1	1	1	1	0
27.	1	1	1	1	0
33.	1	1	1	1	0
44.	1	1	1	1	0
47.	1	1	1	0	0
57.	1	1	1	0	0
59.	1	1	1	1	0
60.	1	1	1	1	0
71.	1	1	1	1	0
77.	1	1	1	1	0
81.	1	1	1	0	0
83.	1	0	0	0	0
85.	1	1	1	0	0
86.	1	1	1	0	0
87.	1	1	1	0	0
98.	1	1	1	1	0
100.	1	1	1	1	0

103.	1	1	1	1	0
104.	1	1	1	1	0
105.	1	1	1	0	0
106.	1	1	1	0	0
107.	1	1	1	0	0
111.	1	1	1	1	0
115.	1	1	1	0	0
116.	1	1	1	0	0
135.	1	1	1	0	0
143.	1	0	0	0	0
150.	1	1	1	1	0
151.	1	1	1	1	0
154.	1	1	1	1	0
157.	1	1	1	1	0
159.	1	1	1	1	0
163.	1	1	1	0	0
166.	1	1	1	1	0
173.	1	1	1	1	0
175.	1	0	0	0	0
179.	1	1	1	1	0
184.	1	0	0	0	0
189.	1	1	1	0	0
190.	1	1	1	0	0
194.	1	1	1	1	0
200.	1	1	1	0	0
202.	1	1	1	0	0
203.	1	1	1	0	0
208.	1	1	1	0	0
209.	1	1	1	0	0
210.	1	1	1	1	0
214.	1	1	1	1	0
215.	1	1	1	1	0
223.	1	0	0	0	0
236.	1	1	1	1	0
237.	1	1	1	1	0
238.	1	1	1	1	0
241.	1	0	0	0	0
325.	1	1	1	0	0
326.	1	0	0	0	0
327.	1	0	0	0	0
329.	1	0	0	0	0
332.	1	0	0	0	0
340.	1	0	0	0	0
341.	1	1	1	0	0
342.	1	1	1	1	0
343.	1	1	1	0	0
345.	1	1	1	0	0
356.	1	0	0	0	0
362.	1	1	1	0	0
366.	1	1	1	0	0
371.	1	0	0	0	0
382.	1	1	1	0	0
394.	1	1	1	1	0
400.	1	1	1	1	0
401.	1	1	1	1	0
411.	1	1	1	1	0
412.	1	1	1	1	0
414.	1	1	1	1	0
415.	1	1	1	0	0
419.	1	1	1	1	0

420.	1	1	1	1	0
424.	1	1	1	0	0
437.	1	0	0	0	0
438.	1	0	0	0	0
440.	1	1	1	0	0
443.	1	0	0	0	0
448.	1	1	1	0	0
452.	1	1	1	0	0
454.	1	1	1	0	0
456.	1	1	1	0	0
466.	1	0	0	0	0
468.	1	1	1	0	0
472.	1	1	1	0	0
473.	1	0	0	0	0
476.	1	0	0	0	0
477.	1	0	0	0	0
478.	1	1	1	0	0
481.	1	0	0	0	0
487.	1	1	1	0	0
488.	1	0	0	0	0
489.	1	0	0	0	0
491.	1	0	0	0	0
493.	1	0	0	0	0
494.	1	0	0	0	0
495.	1	0	0	0	0
497.	1	0	0	0	0
498.	1	0	0	0	0
499.	1	0	0	0	0
501.	1	0	0	0	0
502.	1	0	0	0	0
503.	1	0	0	0	0
504.	1	0	0	0	0
505.	1	0	0	0	0
506.	1	0	0	0	0
507.	1	0	0	0	0
508.	1	1	1	0	0
510.	1	0	0	0	0
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513.	1	0	0	0	0
514.	1	0	0	0	0
515.	1	1	1	1	0
516.	1	0	0	0	0
517.	1	0	0	0	0
518.	1	0	0	0	0
519.	1	1	1	1	0
520.	1	0	0	0	0
521.	1	0	0	0	0
522.	1	0	0	0	0
524.	1	0	0	0	0
527.	1	0	0	0	0
528.	1	0	0	0	0
529.	1	0	0	0	0
530.	1	1	1	1	0
531.	1	0	0	0	0
532.	1	0	0	0	0
537.	1	0	0	0	0
540.	1	0	0	0	0
544.	1	0	0	0	0
547.	1	0	0	0	0

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550.	1	0	0	0	0
563.	1	0	0	0	0
565.	1	1	1	0	0
569.	1	0	0	0	0
571.	1	1	1	0	0
573.	1	1	1	0	0
576.	1	1	1	0	0
578.	1	0	0	0	0
581.	1	1	1	0	0
582.	1	0	0	0	0
584.	1	0	0	0	0
587.	1	0	0	0	0
595.	1	1	1	0	0
597.	1	1	1	1	0
602.	1	0	0	0	0
607.	1	0	0	0	0
613.	1	1	1	0	0
614.	1	0	0	0	0
616.	1	0	0	0	0
617.	1	1	1	0	0
621.	1	1	1	0	0
624.	1	0	0	0	0
625.	1	0	0	0	0
633.	1	0	0	0	0
634.	1	1	1	1	0
638.	1	1	1	0	0
640.	1	1	1	0	0
642.	1	0	0	0	0
651.	1	1	1	1	0
655.	1	1	1	1	0
657.	1	1	1	0	0
659.	1	0	0	0	0
660.	1	1	1	0	0
669.	1	1	1	1	0
673.	1	0	0	0	0
675.	1	0	0	0	0
676.	1	0	0	0	0
679.	1	0	0	0	0
680.	1	0	0	0	0
681.	1	0	0	0	0
682.	1	0	0	0	0
683.	1	1	1	0	0
684.	1	1	1	0	0
685.	1	0	0	0	0
687.	1	1	1	0	0
689.	1	0	0	0	0
690.	1	0	0	0	0
691.	1	0	0	0	0
692.	1	0	0	0	0
695.	1	0	0	0	0
700.	1	0	0	0	0
701.	1	0	0	0	0
705.	1	1	1	1	0
708.	1	0	0	0	0
709.	1	0	0	0	0
710.	1	0	0	0	0
713.	1	0	0	0	0
714.	1	1	1	1	0
715.	1	1	1	1	0

716.	1	0	0	0	0
717.	1	0	0	0	0
718.	1	0	0	0	0
719.	1	0	0	0	0
722.	1	0	0	0	0
725.	1	1	1	0	0
729.	1	0	0	0	0
730.	1	0	0	0	0
731.	1	0	0	0	0
732.	1	0	0	0	0
733.	1	0	0	0	0
741.	1	0	0	0	0
744.	1	1	1	0	0
746.	1	1	1	1	0
749.	1	0	0	0	0
751.	1	0	0	0	0
753.	1	0	0	0	0
755.	1	0	0	0	0
757.	1	1	1	1	0
770.	1	1	1	1	0
775.	1	0	0	0	0
776.	1	0	0	0	0
780.	1	0	0	0	0
781.	1	1	1	0	0
782.	1	1	1	0	0
785.	1	0	0	0	0
787.	1	0	0	0	0
788.	1	0	0	0	0
790.	1	0	0	0	0
791.	1	0	0	0	0
792.	1	1	1	0	0
793.	1	0	0	0	0
796.	1	1	1	1	0
797.	1	1	1	1	0
799.	1	1	1	1	0
800.	1	1	1	1	0
803.	1	1	1	0	0
806.	1	1	1	1	0
810.	1	1	1	1	0
812.	1	1	1	1	0
815.	1	1	1	1	0
816.	1	1	1	1	0
829.	1	1	1	1	0
832.	1	1	1	1	0
838.	1	1	1	1	0
839.	1	1	1	1	0
843.	1	1	1	1	0
848.	1	1	1	1	0
849.	1	1	1	1	0
851.	1	1	1	1	0
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854.	1	1	1	0	0
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857.	1	1	1	1	0
861.	1	1	1	1	0
862.	1	1	1	1	0
864.	1	1	1	1	0
865.	1	1	1	1	0
866.	1	1	1	1	0
867.	1	1	1	1	0

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875.	1	1	1	0	0
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881.	1	0	0	0	0
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891.	1	1	1	0	0
893.	1	1	1	0	0
894.	1	1	1	0	0
897.	1	1	1	0	0
899.	1	0	0	0	0
900.	1	1	1	0	0
902.	1	1	1	1	0
905.	1	1	1	0	0
912.	1	1	1	0	0
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917.	1	1	1	0	0
918.	1	1	1	0	0
926.	1	1	1	0	0
927.	1	0	0	0	0
928.	1	1	1	0	0
929.	1	1	1	0	0
930.	1	0	0	0	0
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939.	1	1	1	0	0
940.	1	0	0	0	0
941.	1	1	1	0	0
942.	1	1	1	0	0
946.	1	1	1	0	0
975.	1	1	0	0	0
980.	1	1	1	0	0
988.	1	1	1	1	0
990.	1	1	1	0	0
992.	1	1	1	1	0
994.	1	1	0	0	0
1001.	1	1	1	0	0
1002.	1	1	1	0	0
1006.	1	1	1	1	0
1009.	1	1	1	1	0
1019.	1	1	1	1	0
1021.	1	1	1	1	0
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1027.	1	0	0	0	0
1030.	1	0	0	0	0
1031.	1	1	1	0	0
1034.	1	0	0	0	0
1035.	1	0	0	0	0
1036.	1	0	0	0	0
1038.	1	0	0	0	0
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1043.	1	1	1	0	0
1045.	1	0	0	0	0
1067.	1	0	0	0	0
1068.	1	1	1	1	0
1069.	1	0	0	0	0
1070.	1	0	0	0	0
1071.	1	0	0	0	0

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1075.	1	0	0	0	0
1081.	1	0	0	0	0
1083.	1	0	0	0	0
1084.	1	0	0	0	0
1088.	1	1	1	0	0
1090.	1	0	0	0	0
1091.	1	0	0	0	0
1093.	1	1	1	0	0
1094.	1	1	1	1	0
1098.	1	0	0	0	0
1110.	1	0	0	0	0
1112.	1	1	0	0	0
1113.	1	0	0	0	0
1117.	1	0	0	0	0
1120.	1	0	0	0	0
1122.	1	0	0	0	0
1123.	1	0	0	0	0
1127.	1	0	0	0	0
1129.	1	1	1	0	0
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1133.	1	0	0	0	0
1134.	1	0	0	0	0
1146.	1	1	1	0	0
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1155.	1	0	0	0	0
1156.	1	0	0	0	0
1161.	1	0	0	0	0
1162.	1	0	0	0	0
1164.	1	0	0	0	0
1165.	1	0	0	0	0
1169.	1	1	1	1	0
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1171.	1	1	1	0	0
1173.	1	0	0	0	0
1175.	1	0	0	0	0
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1179.	1	0	0	0	0
1180.	1	1	0	0	0
1183.	1	1	1	1	0
1187.	1	1	1	1	0
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1276.	1	1	1	0	0
1280.	1	1	1	0	0
1281.	1	0	0	0	0
1288.	1	1	1	1	0
1289.	1	1	1	1	0
1290.	1	1	1	0	0
1292.	1	1	1	0	0
1294.	1	1	1	0	0
1295.	1	1	1	0	0
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1299.	1	0	0	0	0
1301.	1	1	1	1	0
1302.	1	1	1	1	0
1303.	1	0	0	0	0
1304.	1	1	1	1	0
1305.	1	1	1	0	0
1308.	1	1	1	0	0
1310.	1	1	1	1	0

1311.	1	1	1	0	0
1317.	1	1	1	0	0
1320.	1	1	1	0	0
1321.	1	1	1	0	0
1324.	1	1	1	1	0
1326.	1	1	1	0	0
1328.	1	1	1	0	0
1329.	1	1	1	0	0
1333.	1	1	1	1	0
1334.	1	1	1	1	0
1335.	1	1	1	0	0
1337.	1	1	1	0	0
1339.	1	1	1	0	0
1340.	1	1	1	0	0
1347.	1	0	0	0	0
1348.	1	1	1	0	0
1350.	1	1	1	0	0
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1359.	1	0	0	0	0
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1364.	1	0	0	0	0
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1366.	1	0	0	0	0
1369.	1	0	0	0	0
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1382.	1	0	0	0	0
1383.	1	0	0	0	0
1387.	1	0	0	0	0
1389.	1	0	0	0	0
1390.	1	0	0	0	0
1392.	1	0	0	0	0
1394.	1	0	0	0	0
1397.	1	0	0	0	0
1400.	1	0	0	0	0
1402.	1	0	0	0	0
1403.	1	0	0	0	0
1405.	1	0	0	0	0
1406.	1	0	0	0	0
1407.	1	0	0	0	0
1410.	1	0	0	0	0
1411.	1	0	0	0	0
1417.	1	0	0	0	0
1418.	1	0	0	0	0
1419.	1	0	0	0	0
1420.	1	0	0	0	0
1426.	1	0	0	0	0
1427.	1	0	0	0	0
1428.	1	0	0	0	0
1429.	1	0	0	0	0
1430.	1	0	0	0	0
1432.	1	0	0	0	0
1433.	1	0	0	0	0
1438.	1	1	1	1	0
1440.	1	0	0	0	0
1442.	1	1	1	1	0
1443.	1	0	0	0	0
1445.	1	1	1	1	0
1447.	1	1	1	1	0
1448.	1	1	1	1	0

1450.	1	1	1	1	0
1476.	1	1	1	1	0
1479.	1	1	1	0	0
1481.	1	1	1	0	0
1484.	1	0	0	0	0
1485.	1	1	1	0	0
1493.	1	1	1	0	0
1494.	1	1	1	1	0
1499.	1	0	0	0	0
1504.	1	1	1	1	0
1514.	1	1	1	0	0
1539.	1	1	1	1	0
1546.	1	1	1	1	0
1576.	1	1	1	1	0
1580.	1	1	1	1	0
1583.	1	1	1	1	0
1584.	1	1	1	1	0
1591.	1	1	1	1	0
1603.	1	1	1	1	0
1615.	1	1	1	1	0
1618.	1	0	0	0	0
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1626.	1	0	0	0	0
1628.	1	1	1	1	0
1629.	1	0	0	0	0
1630.	1	0	0	0	0
1634.	1	1	1	0	0
1636.	1	0	0	0	0
1639.	1	1	1	1	0
1642.	1	1	1	0	0
1651.	1	1	1	0	0
1652.	1	1	1	1	0
1675.	1	0	0	0	0
1676.	1	0	0	0	0
1677.	1	0	0	0	0
1679.	1	1	1	0	0
1681.	1	1	1	0	0
1682.	1	1	1	0	0
1685.	1	0	0	0	0
1686.	1	1	1	1	0
1687.	1	1	1	1	0
1689.	1	1	1	0	0
1691.	1	1	1	1	0
1692.	1	0	0	0	0
1709.	1	0	0	0	0
1714.	1	1	1	0	0
1715.	1	0	0	0	0
1717.	1	1	1	0	0
1718.	1	1	1	0	0
1720.	1	1	1	1	0
1722.	1	1	1	0	0
1724.	1	1	1	0	0
1725.	1	1	1	1	0
1728.	1	0	0	0	0
1731.	1	1	1	1	0
1733.	1	1	1	1	0
1741.	1	0	0	0	0

1746.	1	1	1	1	0
1749.	1	1	1	1	0
1750.	1	1	1	0	0
1755.	1	0	0	0	0
1757.	1	0	0	0	0
1758.	1	0	0	0	0
1762.	1	1	1	1	0
1764.	1	1	1	1	0
1765.	1	1	1	1	0
1772.	1	1	1	1	0
1773.	1	1	1	0	0
1775.	1	0	0	0	0
1778.	1	0	0	0	0
1780.	1	1	1	1	0
1782.	1	0	0	0	0
1783.	1	1	1	1	0
1784.	1	0	0	0	0
1787.	1	0	0	0	0
1789.	1	0	0	0	0
1791.	1	0	0	0	0
1794.	1	0	0	0	0
1797.	1	1	1	1	0
1799.	1	0	0	0	0
1804.	1	1	1	1	0
1807.	1	0	0	0	0
1808.	1	1	1	1	0
1810.	1	0	0	0	0
1811.	1	1	1	0	0
1812.	1	1	1	0	0
1818.	1	1	1	1	0
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3599.	1	0	0	0	0
3604.	1	0	0	0	0
3608.	1	0	0	0	0
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4625.	1	1	1	0	0
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4664.	1	1	1	1	0
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4688.	1	1	1	0	0
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4745.	1	1	1	0	0
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4751.	1	1	0	0	0
4752.	1	1	1	1	0
4753.	1	1	1	0	0
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4921.	1	1	1	0	0
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4948.	1	1	1	0	0
4950.	1	1	1	0	0
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4966.	1	1	1	1	0
4969.	1	1	1	0	0
4970.	1	1	1	0	0
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4990.	1	1	1	0	0
4991.	1	0	0	0	0
4992.	1	0	0	0	0
4997.	1	0	0	0	0
4998.	1	0	0	0	0
4999.	1	0	0	0	0
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5009.	1	1	1	0	0
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5077.	1	1	1	1	0
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5087.	1	1	1	1	1
5088.	1	1	1	1	1
5089.	1	1	1	1	1
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5091.	1	0	0	0	0
5092.	1	0	0	0	0
5093.	1	0	0	0	0
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5096.	1	1	1	1	1
5097.	1	0	0	0	0
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5099.	1	0	0	0	0
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5105.	1	1	1	1	0
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5116.	1	1	1	1	0
5118.	1	0	0	0	0
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5128.	1	0	0	0	0
5130.	1	0	0	0	0
5131.	1	1	1	1	0
5132.	1	1	1	1	0
5133.	1	0	0	0	0
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5141.	1	0	0	0	0
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5147.	1	0	0	0	0

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5230.	1	1	1	1	0
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5255.	1	1	1	1	0
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5267.	1	0	0	0	0
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5270.	1	1	1	1	0
5272.	1	1	1	1	0
5289.	1	1	1	0	0
5304.	1	0	0	0	0
5306.	1	1	1	0	0
5313.	1	1	1	0	0

17. list inc1 inc2 inc3 inc4 inc9 if edu1_1==1

	inc1	inc2	inc3	inc4	inc9
5.	0	0	0	0	0
24.	0	0	0	0	0
25.	0	0	0	0	0
27.	0	0	0	0	0
33.	0	0	0	0	0
44.	0	0	0	0	0
47.	0	0	1	0	0
57.	0	0	1	0	0
59.	0	0	0	0	0
60.	0	0	0	0	0
71.	0	0	0	0	0
77.	0	0	0	0	0
81.	0	0	1	0	0
83.	1	0	0	0	0
85.	0	0	1	0	0
86.	0	0	1	0	0
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98.	0	0	0	0	0
100.	0	0	0	0	0
103.	0	0	0	0	0
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106.	0	0	1	0	0
107.	0	0	1	0	0
111.	0	0	0	0	0

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3696.	0	0	1	0	0
3698.	0	0	1	0	0
3701.	0	0	0	0	0
3702.	1	0	0	0	0
3703.	1	0	0	0	0
3705.	1	0	0	0	0
3707.	1	0	0	0	0
3708.	1	0	0	0	0
3710.	1	0	0	0	0
3712.	1	0	0	0	0
3714.	1	0	0	0	0
3715.	1	0	0	0	0
3717.	1	0	0	0	0
3719.	1	0	0	0	0
3720.	1	0	0	0	0
3721.	1	0	0	0	0
3722.	0	0	1	0	0
3724.	1	0	0	0	0
3730.	1	0	0	0	0
3731.	1	0	0	0	0
3734.	1	0	0	0	0
3735.	1	0	0	0	0
3737.	1	0	0	0	0
3741.	1	0	0	0	0
3742.	1	0	0	0	0
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3757.	0	0	0	0	0
3764.	0	0	0	0	0
3772.	0	0	0	0	0
3799.	0	0	0	0	0
3817.	0	0	0	1	0
3832.	0	0	0	0	0
3834.	1	0	0	0	0
3836.	0	0	0	0	0
3847.	0	0	0	1	0
3867.	0	0	0	0	0
3868.	0	0	0	1	0
3870.	0	0	0	0	0
3871.	0	0	0	0	0
3872.	0	0	1	0	0
3879.	0	0	0	1	0
3887.	0	0	0	0	0
3888.	0	0	1	0	0
3890.	0	0	0	0	0
3891.	0	0	0	0	0
3898.	0	0	0	0	0

3899.	0	0	1	0	0
3902.	1	0	0	0	0
3904.	0	0	0	0	0
3905.	1	0	0	0	0
3909.	0	0	1	0	0
3911.	1	0	0	0	0
3912.	1	0	0	0	0
3913.	1	0	0	0	0
3914.	0	0	1	0	0
3915.	1	0	0	0	0
3916.	0	0	1	0	0
3917.	1	0	0	0	0
3918.	0	0	1	0	0
3921.	0	0	1	0	0
3922.	1	0	0	0	0
3923.	0	0	1	0	0
3924.	0	0	0	0	0
3925.	0	0	0	0	0
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3928.	0	0	1	0	0
3929.	1	0	0	0	0
3930.	0	0	1	0	0
3934.	0	0	1	0	0
3935.	1	0	0	0	0
3938.	1	0	0	0	0
3939.	0	0	0	0	0
3942.	1	0	0	0	0
3943.	0	0	1	0	0
3946.	0	0	1	0	0
3947.	1	0	0	0	0
3949.	0	0	0	0	0
3961.	0	0	1	0	0
3966.	1	0	0	0	0
3967.	0	0	1	0	0
3968.	0	0	1	0	0
3971.	1	0	0	0	0
3972.	1	0	0	0	0
3974.	1	0	0	0	0
3975.	0	0	1	0	0
3976.	1	0	0	0	0
3977.	0	0	1	0	0
3978.	1	0	0	0	0
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3984.	0	0	1	0	0
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3987.	0	0	1	0	0
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3998.	0	1	0	0	0
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4028.	1	0	0	0	0
4029.	1	0	0	0	0
4030.	1	0	0	0	0
4031.	0	0	0	1	0
4032.	0	0	0	0	0
4033.	0	0	0	0	0
4040.	0	1	0	0	0
4041.	1	0	0	0	0
4042.	1	0	0	0	0
4045.	1	0	0	0	0
4048.	0	1	0	0	0
4052.	1	0	0	0	0
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4058.	1	0	0	0	0
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4061.	1	0	0	0	0
4062.	0	0	1	0	0
4063.	0	0	0	0	0
4064.	1	0	0	0	0
4067.	0	0	0	0	0
4069.	1	0	0	0	0
4070.	0	0	0	0	0
4071.	1	0	0	0	0
4072.	1	0	0	0	0
4076.	1	0	0	0	0
4077.	1	0	0	0	0
4078.	1	0	0	0	0
4079.	0	0	1	0	0
4085.	1	0	0	0	0
4087.	0	0	0	0	0
4088.	0	0	0	0	0
4094.	1	0	0	0	0
4095.	0	0	1	0	0
4097.	0	0	1	0	0
4098.	0	0	1	0	0
4105.	1	0	0	0	0
4112.	0	0	1	0	0
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4128.	0	0	0	0	0
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4142.	0	0	1	0	0
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4214.	0	0	0	0	0
4216.	0	0	0	0	0
4218.	0	0	0	0	0
4219.	0	0	0	0	0
4220.	0	0	0	0	0

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4232.	0	0	0	0	0
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4249.	0	0	1	0	0
4251.	0	0	0	0	0
4257.	0	0	1	0	0
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4265.	0	0	1	0	0
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4280.	1	0	0	0	0
4281.	0	0	0	0	0
4283.	0	0	0	0	0
4284.	0	0	1	0	0
4285.	0	0	0	0	0
4289.	0	0	1	0	0
4291.	0	0	0	0	0
4292.	0	0	0	0	0
4296.	0	0	0	0	0
4298.	0	0	1	0	0
4299.	0	0	1	0	0
4301.	0	0	0	0	0
4302.	1	0	0	0	0
4303.	1	0	0	0	0
4305.	0	0	0	0	0
4306.	0	1	0	0	0
4308.	1	0	0	0	0
4309.	1	0	0	0	0
4311.	0	0	1	0	0
4312.	0	0	0	0	0
4313.	1	0	0	0	0
4314.	0	0	1	0	0
4323.	0	0	0	0	0
4324.	0	0	0	0	0
4325.	0	0	0	0	0
4326.	0	0	0	0	0
4327.	0	0	0	0	0
4330.	0	0	0	0	0
4334.	0	0	0	0	0
4336.	0	0	0	0	0
4340.	0	0	0	0	0
4342.	0	0	1	0	0
4344.	0	0	1	0	0
4347.	1	0	0	0	0
4350.	0	0	1	0	0
4353.	0	0	1	0	0
4354.	1	0	0	0	0
4357.	0	0	1	0	0
4362.	1	0	0	0	0
4364.	0	0	0	0	0
4365.	0	0	0	0	0
4367.	0	0	0	0	0
4368.	0	0	0	0	0
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4373.	0	0	0	0	0

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4404.	0	1	0	0	0
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4419.	0	0	0	0	0
4420.	0	0	0	1	0
4421.	0	0	0	0	0
4422.	0	1	0	0	0
4431.	0	0	0	0	0
4432.	0	0	0	0	0
4459.	0	0	0	0	0
4463.	0	0	0	1	0
4465.	0	0	0	0	0
4471.	0	0	0	1	0
4472.	0	0	0	0	0
4473.	1	0	0	0	0
4477.	0	0	0	0	0
4480.	0	0	0	0	0
4483.	0	0	0	0	0
4484.	0	0	1	0	0
4485.	0	0	0	0	0
4487.	0	0	0	0	0
4504.	0	0	1	0	0
4507.	0	0	0	0	0
4512.	0	0	0	0	0
4518.	0	0	0	0	0
4522.	1	0	0	0	0
4525.	1	0	0	0	0
4527.	1	0	0	0	0
4530.	1	0	0	0	0
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4534.	1	0	0	0	0
4536.	1	0	0	0	0
4537.	0	0	1	0	0
4538.	1	0	0	0	0
4542.	0	0	1	0	0
4551.	0	0	1	0	0
4552.	0	0	1	0	0
4558.	1	0	0	0	0
4560.	1	0	0	0	0
4561.	0	1	0	0	0
4563.	1	0	0	0	0
4567.	0	0	0	1	0
4569.	0	0	0	0	0
4574.	0	0	0	0	0
4575.	0	0	0	0	0
4577.	0	1	0	0	0
4581.	1	0	0	0	0
4588.	1	0	0	0	0
4591.	1	0	0	0	0
4599.	1	0	0	0	0
4613.	0	0	1	0	0
4615.	0	0	1	0	0
4618.	0	0	0	0	0

4619.	0	0	1	0	0
4622.	0	0	1	0	0
4625.	0	0	1	0	0
4626.	0	0	0	0	0
4628.	0	0	0	0	0
4635.	0	0	0	0	0
4639.	0	0	0	0	0
4642.	0	0	0	0	0
4647.	0	0	0	0	0
4650.	0	0	0	0	0
4652.	0	0	0	0	0
4655.	0	0	0	0	0
4656.	0	0	0	0	0
4657.	0	0	0	0	0
4658.	0	0	0	0	0
4659.	0	0	0	0	0
4660.	0	0	0	0	0
4664.	0	0	0	0	0
4674.	0	0	1	0	0
4677.	1	0	0	0	0
4688.	0	0	1	0	0
4689.	0	0	0	1	0
4691.	0	0	1	0	0
4694.	0	0	0	0	0
4696.	0	0	1	0	0
4699.	1	0	0	0	0
4703.	0	0	0	1	0
4709.	0	0	0	1	0
4718.	0	0	1	0	0
4721.	0	0	0	1	0
4722.	0	0	0	0	0
4723.	0	0	0	0	0
4724.	0	0	0	0	0
4725.	0	0	0	1	0
4730.	0	0	0	1	0
4733.	1	0	0	0	0
4737.	0	0	1	0	0
4741.	1	0	0	0	0
4742.	0	0	0	0	0
4743.	0	0	0	0	0
4744.	0	0	1	0	0
4745.	0	0	1	0	0
4748.	1	0	0	0	0
4749.	0	0	1	0	0
4751.	0	1	0	0	0
4752.	0	0	0	0	0
4753.	0	0	1	0	0
4756.	0	1	0	0	0
4759.	0	0	0	0	0
4848.	0	0	0	0	0
4850.	0	0	0	0	0
4888.	0	0	0	0	0
4921.	0	0	1	0	0
4943.	0	0	1	0	0
4946.	0	0	1	0	0
4947.	0	0	1	0	0
4948.	0	0	1	0	0
4950.	0	0	1	0	0
4951.	0	0	1	0	0
4960.	0	0	1	0	0

4961.	0	0	1	0	0
4962.	1	0	0	0	0
4966.	0	0	0	0	0
4969.	0	0	1	0	0
4970.	0	0	1	0	0
4973.	1	0	0	0	0
4974.	0	0	1	0	0
4985.	0	0	1	0	0
4986.	0	0	1	0	0
4987.	0	0	1	0	0
4990.	0	0	1	0	0
4991.	1	0	0	0	0
4992.	1	0	0	0	0
4997.	1	0	0	0	0
4998.	1	0	0	0	0
4999.	1	0	0	0	0
5004.	1	0	0	0	0
5006.	1	0	0	0	0
5009.	0	0	1	0	0
5010.	1	0	0	0	0
5013.	1	0	0	0	0
5014.	1	0	0	0	0
5015.	1	0	0	0	0
5016.	1	0	0	0	0
5017.	1	0	0	0	0
5018.	1	0	0	0	0
5020.	1	0	0	0	0
5021.	1	0	0	0	0
5022.	1	0	0	0	0
5026.	1	0	0	0	0
5028.	1	0	0	0	0
5029.	1	0	0	0	0
5030.	1	0	0	0	0
5033.	0	0	0	0	0
5037.	1	0	0	0	0
5039.	1	0	0	0	0
5041.	1	0	0	0	0
5042.	1	0	0	0	0
5047.	1	0	0	0	0
5050.	1	0	0	0	0
5051.	0	0	1	0	0
5055.	1	0	0	0	0
5056.	1	0	0	0	0
5057.	1	0	0	0	0
5060.	0	0	0	0	1
5061.	1	0	0	0	0
5069.	1	0	0	0	0
5070.	1	0	0	0	0
5074.	0	0	1	0	0
5075.	1	0	0	0	0
5076.	1	0	0	0	0
5077.	0	0	0	0	0
5078.	0	0	0	0	0
5079.	1	0	0	0	0
5080.	0	0	0	0	0
5081.	1	0	0	0	0
5082.	0	0	0	0	0
5083.	0	0	0	0	0
5084.	1	0	0	0	0
5085.	1	0	0	0	0

5086.	1	0	0	0	0
5087.	0	0	0	0	0
5088.	0	0	0	0	0
5089.	0	0	0	0	0
5090.	1	0	0	0	0
5091.	1	0	0	0	0
5092.	1	0	0	0	0
5093.	1	0	0	0	0
5094.	0	0	0	0	0
5095.	1	0	0	0	0
5096.	0	0	0	0	0
5097.	1	0	0	0	0
5098.	1	0	0	0	0
5099.	1	0	0	0	0
5100.	1	0	0	0	0
5101.	0	0	0	0	0
5102.	0	0	0	0	0
5103.	0	0	0	0	0
5104.	0	0	0	0	0
5105.	0	0	0	0	0
5106.	0	0	0	0	0
5107.	1	0	0	0	0
5108.	1	0	0	0	0
5109.	1	0	0	0	0
5110.	1	0	0	0	0
5111.	0	0	0	0	0
5113.	0	0	0	1	0
5114.	1	0	0	0	0
5115.	0	0	0	0	0
5116.	0	0	0	0	0
5118.	1	0	0	0	0
5119.	1	0	0	0	0
5120.	1	0	0	0	0
5123.	1	0	0	0	0
5124.	0	0	0	0	0
5125.	0	0	0	0	0
5126.	0	0	0	0	0
5127.	1	0	0	0	0
5128.	1	0	0	0	0
5130.	1	0	0	0	0
5131.	0	0	0	0	0
5132.	0	0	0	0	0
5133.	1	0	0	0	0
5135.	0	0	0	0	0
5137.	1	0	0	0	0
5138.	1	0	0	0	0
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5140.	1	0	0	0	0
5141.	1	0	0	0	0
5142.	1	0	0	0	0
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5144.	1	0	0	0	0
5145.	0	0	0	0	0
5147.	1	0	0	0	0
5148.	1	0	0	0	0
5149.	1	0	0	0	0
5151.	1	0	0	0	0
5152.	1	0	0	0	0
5153.	1	0	0	0	0
5154.	1	0	0	0	0

5155.	**1**	**0**	**0**	**0**	**0**
5156.	**1**	**0**	**0**	**0**	**0**
5157.	**1**	**0**	**0**	**0**	**0**
5224.	**0**	**0**	**0**	**0**	**0**
5225.	**0**	**0**	**0**	**0**	**0**
5226.	**0**	**0**	**1**	**0**	**0**
5230.	**0**	**0**	**0**	**0**	**0**
5236.	**0**	**0**	**0**	**0**	**0**
5241.	**0**	**0**	**1**	**0**	**0**
5243.	**0**	**0**	**1**	**0**	**0**
5251.	**0**	**0**	**1**	**0**	**0**
5255.	**0**	**0**	**0**	**0**	**0**
5260.	**0**	**0**	**1**	**0**	**0**
5261.	**0**	**0**	**0**	**0**	**0**
5263.	**0**	**0**	**0**	**0**	**0**
5266.	**0**	**0**	**0**	**0**	**0**
5267.	**1**	**0**	**0**	**0**	**0**
5268.	**0**	**0**	**0**	**0**	**0**
5270.	**0**	**0**	**0**	**0**	**0**
5272.	**0**	**0**	**0**	**0**	**0**
5289.	**0**	**0**	**1**	**0**	**0**
5304.	**1**	**0**	**0**	**0**	**0**
5306.	**0**	**0**	**1**	**0**	**0**
5313.	**0**	**0**	**1**	**0**	**0**

```
18.
19. drop _merge

20. *Using oprobit,
21. de edu*
```

Variable name	Storage type	Display format	Value label	Variable label
edu1_1	double	%10.0g		
edu1_2	double	%10.0g		
edu1_3	double	%10.0g		
edu1_4	double	%10.0g		
edu1_5	double	%10.0g		
edu2_1	double	%10.0g		
edu2_2	double	%10.0g		
edu2_3	double	%10.0g		
edu2_4	double	%10.0g		
edu2_5	double	%10.0g		
edu	float	%20.0g	educ	
educLabel	float	%9.0g	educLabel	**Education Level of Adult**

```
22. *discrete edu is i.edu.  Stata oprobit isn't accepting this. So we have to recreate
  > each level as a dummy.
23. summ(age)
```

Variable	Obs	Mean	Std. dev.	Min	Max
age	**5,318**	**41.72396**	**15.23739**	**18**	**98**

```
24. summ(income)
```

Variable	Obs	Mean	Std. dev.	Min	Max
income	**5,318**	**3.842422**	**2.065322**	**1**	**10**

```
25. summ agecat
```

Variable	Obs	Mean	Std. dev.	Min	Max
agecat	**5,318**	**3.410117**	**1.899315**	**1**	**10**

```
26.
27. *Part 1 Bivariate Regressions
28.
29. *Test Equation Age scheme 1 distinct
30. *oprobit i.income age
31. oprobit incomecat age

  Iteration 0:  Log likelihood = -8579.2964
  Iteration 1:  Log likelihood = -8576.2904
  Iteration 2:  Log likelihood = -8576.2904

  Ordered probit regression                         Number of obs =  5,318
                                                    LR chi2(1)    =   6.01
                                                    Prob > chi2   = 0.0142
  Log likelihood = -8576.2904                       Pseudo R2     = 0.0004
```

incomecat	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
age	**-.0023468**	**.0009573**	**-2.45**	**0.014**	**-.0042231**	**-.0004704**
/cut1	**-.7946248**	**.0443112**			**-.8814732**	**-.7077765**
/cut2	**-.7218099**	**.0441207**			**-.8082849**	**-.6353348**
/cut3	**-.2190173**	**.0433825**			**-.3040455**	**-.1339891**
/cut4	**-.1593362**	**.0433578**			**-.244316**	**-.0743564**
/cut5	**1.052865**	**.0453488**			**.9639828**	**1.141747**
/cut6	**1.17555**	**.0460041**			**1.085384**	**1.265717**
/cut7	**1.712307**	**.0513705**			**1.611622**	**1.812991**
/cut8	**2.208436**	**.0642294**			**2.082549**	**2.334323**
/cut9	**2.370433**	**.071734**			**2.229837**	**2.51103**

```
32. eststo esttrial1, title(AsianBarotrials1eq1)

33. *reference case age43to50
34. oprobit incomecat age18to26       age27to34       age35to42    age51to58       age59
  > to66       age67to74       age75to82       age83to90       age91to98

  Iteration 0:  Log likelihood = -8579.2964
  Iteration 1:  Log likelihood = -8572.8912
  Iteration 2:  Log likelihood =  -8572.891

  Ordered probit regression                         Number of obs =  5,318
                                                    LR chi2(9)    =  12.81
                                                    Prob > chi2   = 0.1714
  Log likelihood = -8572.891                        Pseudo R2     = 0.0007
```

incomecat	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
age18to26	**.0969807**	**.0490756**	**1.98**	**0.048**	**.0007943**	**.1931671**
age27to34	**.031388**	**.0480136**	**0.65**	**0.513**	**-.062717**	**.125493**
age35to42	**.0092051**	**.0472917**	**0.19**	**0.846**	**-.0834849**	**.1018951**
age51to58	**.0993953**	**.0589922**	**1.68**	**0.092**	**-.0162272**	**.2150179**
age59to66	**.0031679**	**.0606474**	**0.05**	**0.958**	**-.1156989**	**.1220347**
age67to74	**-.0065886**	**.0774263**	**-0.09**	**0.932**	**-.1583413**	**.1451641**
age75to82	**-.1839683**	**.108419**	**-1.70**	**0.090**	**-.3964656**	**.028529**
age83to90	**.0189808**	**.1962021**	**0.10**	**0.923**	**-.3655682**	**.4035299**
age91to98	**-.2418535**	**.2956006**	**-0.82**	**0.413**	**-.82122**	**.3375131**

/cut1	-.667358	.0366494	-.7391895	-.5955265
/cut2	-.5944784	.0364936	-.6660046	-.5229522
/cut3	-.0913286	.0359735	-.1618353	-.0208219
/cut4	-.0316201	.0359652	-.1021106	.0388704
/cut5	1.180888	.0385523	1.105327	1.256449
/cut6	1.3036	.0392986	1.226576	1.380624
/cut7	1.841128	.0453707	1.752203	1.930052
/cut8	2.339206	.059439	2.222707	2.455704
/cut9	2.501967	.0674785	2.369712	2.634223

35. eststo esttrial2, title(AsianBarotrials1eq2)

36. twoway scatter income age ||qfit income age

37. oprobit incomecat

Iteration 0: Log likelihood = **-8579.2964**
Iteration 1: Log likelihood = **-8579.2964**

Ordered probit regression — Number of obs = **5,318**
Log likelihood = **-8579.2964** — Pseudo R2 = **0.0000**

incomecat	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
/cut1	-.6962488	.0187895			-.7330755	-.6594221
/cut2	-.6235744	.0184577			-.6597508	-.5873981
/cut3	-.1214342	.0172326			-.1552094	-.087659
/cut4	-.0617859	.0171984			-.095494	-.0280777
/cut5	1.150121	.0220284			1.106946	1.193296
/cut6	1.272815	.0233388			1.227071	1.318558
/cut7	1.809798	.0325631			1.745975	1.87362
/cut8	2.306897	.0502048			2.208498	2.405297
/cut9	2.469269	.059433			2.352783	2.585756

38. *Handy, there is not a positive association of income with age.
39. * also we have avoided using weights - these results not representative.
40. estat ic

Akaike's information criterion and Bayesian information criterion

Model	N	ll(null)	ll(model)	df	AIC	BIC
.	5,318	-8579.296	-8579.296	9	17176.59	17235.8

Note: BIC uses N = number of observations. See **[R] IC note**.

41. *The rev1 income variable refers to household income in the adult's estimate of thei
> r quintile, adjusted by filling in 11% missing values using the decile levels in the
> ladder of quantiles with variable SE14a which is about household ability to afford
> to live.
42. estimates table esttrial1 esttrial2

Variable	esttrial1	esttrial2
incomecat		
age	-.00234677	
age18to26		.09698072
age27to34		.03138799
age35to42		.00920508
age51to58		.09939532
age59to66		.00316789
age67to74		-.0065886
age75to82		-.18396829
age83to90		.01898085
age91to98		-.24185346
/cut1	-.79462484	-.66735802

/cut2	-.72180986 -.5944784
/cut3	-.21901727 -.09132862
/cut4	-.15933618 -.03162007
/cut5	1.0528648 1.1808877
/cut6	1.1755504 1.3035997
/cut7	1.7123066 1.8411275
/cut8	2.208436 2.3392057
/cut9	2.3704335 2.5019671

43. etable, estimates(esttrial1 esttrial2) mstat(N) mstat(aic) mstat(bic) mstat(df) ex
> port(trialfileTestrun.pdf, replace)

	incomecat	incomecat
se3_1 Actual age	-0.002	
	(0.001)	
age18to26		0.097
		(0.049)
age27to34		0.031
		(0.048)
age35to42		0.009
		(0.047)
age51to58		0.099
		(0.059)
age59to66		0.003
		(0.061)
age67to74		-0.007
		(0.077)
age75to82		-0.184
		(0.108)
age83to90		0.019
		(0.196)
age91to98		-0.242
		(0.296)
cut1	-0.795	-0.667
	(0.044)	(0.037)
cut2	-0.722	-0.594
	(0.044)	(0.036)
cut3	-0.219	-0.091
	(0.043)	(0.036)
cut4	-0.159	-0.032
	(0.043)	(0.036)
cut5	1.053	1.181
	(0.045)	(0.039)
cut6	1.176	1.304
	(0.046)	(0.039)
cut7	1.712	1.841
	(0.051)	(0.045)
cut8	2.208	2.339
	(0.064)	(0.059)
cut9	2.370	2.502
	(0.072)	(0.067)
Number of observations	5318	5318
AIC	17172.58	17181.78
BIC	17238.37	17300.20

(collection **ETable** exported to file trialfileTestrun.pdf)

```
44.
45.  *mstat(aic) mstat(bic) mstat(ll)
46.  *mstat(mstat[, mstat_opts])
47.
48.  *    BSPS Regression Table
49.
50. *Equation 1a, Income by Edu scheme 1 ordinal distinct
51. *Leave out the lowest education category
52. *ib(last).mpgTiles
53.
54. tab incomecat
```

incomecat	Freq.	Percent	Cum.
1	**1,293**	**24.31**	**24.31**
2	**124**	**2.33**	**26.65**
3	**985**	**18.52**	**45.17**
4	**126**	**2.37**	**47.54**
5	**2,125**	**39.96**	**87.50**
6	**125**	**2.35**	**89.85**
7	**353**	**6.64**	**96.48**
8	**131**	**2.46**	**98.95**
9	**20**	**0.38**	**99.32**
10	**36**	**0.68**	**100.00**
Total	**5,318**	**100.00**	

```
55. oprobit incomecat edu1_2 edu1_3 edu1_4 edu1_5

Iteration 0:  Log likelihood = -8579.2964
Iteration 1:  Log likelihood = -8334.5718
Iteration 2:  Log likelihood = -8334.4356
Iteration 3:  Log likelihood = -8334.4356

Ordered probit regression                       Number of obs =  5,318
                                                LR chi2(4)    =  489.72
                                                Prob > chi2   =  0.0000
Log likelihood = -8334.4356                     Pseudo R2     =  0.0285
```

incomecat	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
edu1_2	**.2333269**	**.0530232**	**4.40**	**0.000**	**.1294033**	**.3372506**
edu1_3	**.3528336**	**.0505596**	**6.98**	**0.000**	**.2537385**	**.4519286**
edu1_4	**.499435**	**.0395815**	**12.62**	**0.000**	**.4218567**	**.5770133**
edu1_5	**.8992648**	**.0419034**	**21.46**	**0.000**	**.8171356**	**.981394**
/cut1	**-.3491634**	**.0286858**			**-.4053866**	**-.2929402**
/cut2	**-.2711064**	**.0286076**			**-.3271764**	**-.2150365**
/cut3	**.2689147**	**.0289096**			**.2122528**	**.3255766**
/cut4	**.3331145**	**.0290183**			**.2762397**	**.3899893**
/cut5	**1.606547**	**.0338576**			**1.540188**	**1.672907**
/cut6	**1.731694**	**.0347305**			**1.663623**	**1.799764**
/cut7	**2.269755**	**.0411828**			**2.189038**	**2.350471**
/cut8	**2.754122**	**.0552738**			**2.645788**	**2.862457**
/cut9	**2.910368**	**.0630917**			**2.786711**	**3.034026**

```
56. estat ic

Akaike's information criterion and Bayesian information criterion
```

Model	N	ll(null)	ll(model)	df	AIC	BIC
.	**5,318**	**-8579.296**	**-8334.436**	**13**	**16694.87**	**16780.4**

Note: BIC uses N = number of observations. See **[R] IC note**.

```
57. eststo esttrial1a

58. *Equation 1b, Income by Edu scheme 2 ordinal cumulative
59. oprobit income edu2_2 edu2_3 edu2_4 edu2_5

  Iteration 0:  Log likelihood = -8579.2964
  Iteration 1:  Log likelihood = -8334.5718
  Iteration 2:  Log likelihood = -8334.4356
  Iteration 3:  Log likelihood = -8334.4356

  Ordered probit regression                       Number of obs =  5,318
                                                  LR chi2(4)    =  489.72
                                                  Prob > chi2   =  0.0000
  Log likelihood = -8334.4356                     Pseudo R2     =  0.0285
```

income	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
edu2_2	.2333269	.0530232	4.40	0.000	.1294033	.3372506
edu2_3	.1195066	.0623575	1.92	0.055	-.0027119	.2417251
edu2_4	.1466014	.05126	2.86	0.004	.0461336	.2470693
edu2_5	.3998298	.0422322	9.47	0.000	.3170562	.4826034
/cut1	-.3491634	.0286858			-.4053866	-.2929402
/cut2	-.2711064	.0286076			-.3271764	-.2150365
/cut3	.2689147	.0289096			.2122528	.3255766
/cut4	.3331145	.0290183			.2762397	.3899893
/cut5	1.606547	.0338576			1.540188	1.672907
/cut6	1.731694	.0347305			1.663623	1.799764
/cut7	2.269755	.0411828			2.189038	2.350471
/cut8	2.754122	.0552738			2.645788	2.862457
/cut9	2.910368	.0630917			2.786711	3.034026

```
60.
61. *age18to26       age27to34       age35to42    age51to58       age59to66       age67t
  > o74       age75to82       age83to90       age91to98
62. estat ic

  Akaike's information criterion and Bayesian information criterion
```

Model	N	ll(null)	ll(model)	df	AIC	BIC
.	5,318	-8579.296	-8334.436	13	16694.87	16780.4

```
  Note: BIC uses N = number of observations. See [R] IC note.

63. eststo esttrial1b

64. estimates table esttrial1a esttrial1b
```

Variable	esttrial1a	esttrial1b
incomecat		
edu1_2	.23332694	
edu1_3	.35283355	
edu1_4	.499435	
edu1_5	.89926481	
/cut1	-.34916343	-.34916343
/cut2	-.27110643	-.27110643
/cut3	.2689147	.2689147
/cut4	.33311447	.33311447
/cut5	1.6065473	1.6065473
/cut6	1.7316939	1.7316939
/cut7	2.2697545	2.2697545
/cut8	2.7541222	2.7541222
/cut9	2.9103685	2.9103685
income		

edu2_2	**.23332694**
edu2_3	**.11950661**
edu2_4	**.14660145**
edu2_5	**.39982981**

65. etable, estimates(esttrial1a esttrial1b) mstat(N) mstat(aic) mstat(bic) mstat(ll)
> mstat(df) export(trialfile1.pdf, replace)

	incomecat	income
edu1_2	**0.233**	
	(0.053)	
edu1_3	**0.353**	
	(0.051)	
edu1_4	**0.499**	
	(0.040)	
edu1_5	**0.899**	
	(0.042)	
cut1	**-0.349**	**-0.349**
	(0.029)	**(0.029)**
cut2	**-0.271**	**-0.271**
	(0.029)	**(0.029)**
cut3	**0.269**	**0.269**
	(0.029)	**(0.029)**
cut4	**0.333**	**0.333**
	(0.029)	**(0.029)**
cut5	**1.607**	**1.607**
	(0.034)	**(0.034)**
cut6	**1.732**	**1.732**
	(0.035)	**(0.035)**
cut7	**2.270**	**2.270**
	(0.041)	**(0.041)**
cut8	**2.754**	**2.754**
	(0.055)	**(0.055)**
cut9	**2.910**	**2.910**
	(0.063)	**(0.063)**
edu2_2		**0.233**
		(0.053)
edu2_3		**0.120**
		(0.062)
edu2_4		**0.147**
		(0.051)
edu2_5		**0.400**
		(0.042)
Number of observations	**5318**	**5318**
AIC	**16694.87**	**16694.87**
BIC	**16780.40**	**16780.40**
Log likelihood	**-8334.44**	**-8334.44**

(collection **ETable** exported to file trialfile1.pdf)

66.
67. *Equation 2a, Education by Age scheme 1 ordinal distinct
68. oprobit educLabel i.agecat

Iteration 0: Log likelihood = **-8131.4009**
Iteration 1: Log likelihood = **-7697.4227**
Iteration 2: Log likelihood = **-7696.7631**
Iteration 3: Log likelihood = **-7696.7626**

Ordered probit regression — Number of obs = **5,318**
LR chi2(**9**) = **869.28**
Prob > chi2 = **0.0000**
Log likelihood = **-7696.7626** — Pseudo R2 = **0.0535**

educLabel	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
agecat						
2	-.2498404	.0492747	-5.07	0.000	-.3464171	-.1532637
3	-.5309967	.0485318	-10.94	0.000	-.6261172	-.4358762
4	-.8509704	.0509596	-16.70	0.000	-.9508494	-.7510914
5	-1.003112	.0616385	-16.27	0.000	-1.123921	-.8823025
6	-1.332185	.0652819	-20.41	0.000	-1.460135	-1.204234
7	-1.336791	.0837689	-15.96	0.000	-1.500975	-1.172607
8	-1.438372	.1183888	-12.15	0.000	-1.670409	-1.206334
9	-2.030788	.2543925	-7.98	0.000	-2.529388	-1.532188
10	-1.14002	.3080273	-3.70	0.000	-1.743743	-.5362978
/cut1	-1.183163	.0390843			-1.259767	-1.106559
/cut2	-.8748548	.038265			-.9498528	-.7998569
/cut3	-.5482233	.0376441			-.6220043	-.4744423
/cut4	.2438684	.037202			.1709539	.316783

69. estat ic

Akaike's information criterion and Bayesian information criterion

Model	N	ll(null)	ll(model)	df	AIC	BIC
.	5,318	-8131.401	-7696.763	13	15419.53	15505.05

Note: BIC uses N = number of observations. See **[R] IC note**.

70. eststo esttrial2a

71. *Equation 2b, Education by Age scheme 2 ordinal cumulative
72. oprobit educLabel age2_2 age2_3 age2_4 age2_5 age2_6 age2_7 age2_8 age2_9 age2_10
>

Iteration 0: Log likelihood = -8131.4009
Iteration 1: Log likelihood = -7697.4227
Iteration 2: Log likelihood = -7696.7631
Iteration 3: Log likelihood = -7696.7626

Ordered probit regression — Number of obs = 5,318
LR chi2(9) = 869.28
Prob > chi2 = 0.0000
Log likelihood = -7696.7626 — Pseudo R2 = 0.0535

educLabel	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
age2_2	-.2498404	.0492747	-5.07	0.000	-.3464171	-.1532637
age2_3	-.2811563	.0466378	-6.03	0.000	-.3725646	-.1897479
age2_4	-.3199737	.0480852	-6.65	0.000	-.414219	-.2257283
age2_5	-.1521413	.0609858	-2.49	0.013	-.2716713	-.0326113
age2_6	-.329073	.0730773	-4.50	0.000	-.4723019	-.1858441
age2_7	-.0046062	.0923692	-0.05	0.960	-.1856465	.1764341
age2_8	-.1015806	.1352473	-0.75	0.453	-.3666604	.1634992
age2_9	-.5924163	.2755587	-2.15	0.032	-1.132501	-.0523312
age2_10	.8907677	.3960277	2.25	0.024	.1145676	1.666968
/cut1	-1.183163	.0390843			-1.259767	-1.106559
/cut2	-.8748548	.038265			-.9498528	-.7998569
/cut3	-.5482233	.0376441			-.6220043	-.4744423
/cut4	.2438684	.037202			.1709539	.316783

73. estat ic

Akaike's information criterion and Bayesian information criterion

Model	N	ll(null)	ll(model)	df	AIC	BIC
.	**5,318**	**-8131.401**	**-7696.763**	**13**	**15419.53**	**15505.05**

Note: BIC uses N = number of observations. See **[R] IC note**.

74. eststo esttrial2b

75. estimates table esttrial2a esttrial2a

Variable	esttrial2a
educLabel	
agecat	
2	**-.24984042**
3	**-.5309967**
4	**-.85097039**
5	**-1.0031117**
6	**-1.3321847**
7	**-1.3367909**
8	**-1.4383715**
9	**-2.0307879**
10	**-1.1400202**
/cut1	**-1.1831631**
/cut2	**-.87485483**
/cut3	**-.5482233**
/cut4	**.24386843**

76. etable, estimates(esttrial2a esttrial2b) mstat(N) mstat(aic) mstat(bic) mstat(ll)
> mstat(df) export(trialfile2.pdf, replace)

	educLabel	educLabel
agecat		
2	**-0.250**	
	(0.049)	
3	**-0.531**	
	(0.049)	
4	**-0.851**	
	(0.051)	
5	**-1.003**	
	(0.062)	
6	**-1.332**	
	(0.065)	
7	**-1.337**	
	(0.084)	
8	**-1.438**	
	(0.118)	
9	**-2.031**	
	(0.254)	
10	**-1.140**	
	(0.308)	
age2_2		**-0.250**
		(0.049)
age2_3		**-0.281**
		(0.047)
age2_4		**-0.320**
		(0.048)
age2_5		**-0.152**
		(0.061)
age2_6		**-0.329**
		(0.073)
age2_7		**-0.005**

		(0.092)
age2_8		-0.102
		(0.135)
age2_9		-0.592
		(0.276)
age2_10		0.891
		(0.396)
cut1	-1.183	-1.183
	(0.039)	(0.039)
cut2	-0.875	-0.875
	(0.038)	(0.038)
cut3	-0.548	-0.548
	(0.038)	(0.038)
cut4	0.244	0.244
	(0.037)	(0.037)
Number of observations	5318	5318
AIC	15419.53	15419.53
BIC	15505.05	15505.05
Log likelihood	-7696.76	-7696.76

(collection **ETable** exported to file trialfile2.pdf)

```
77. *Equation 3a, Income by Age scheme 1 ordinal distinct
78. oprobit incomecat      age27to34       age35to42    age43to50  age51to58       age59
  > to66       age67to74       age75to82       age83to90       age91to98

  Iteration 0:  Log likelihood = -8579.2964
  Iteration 1:  Log likelihood = -8572.8912
  Iteration 2:  Log likelihood =  -8572.891

  Ordered probit regression                              Number of obs =  5,318
                                                         LR chi2(9)    =  12.81
                                                         Prob > chi2   = 0.1714
  Log likelihood = -8572.891                             Pseudo R2     = 0.0007
```

incomecat	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
age27to34	-.0655927	.0479541	-1.37	0.171	-.159581	.0283955
age35to42	-.0877756	.0472353	-1.86	0.063	-.1803551	.0048038
age43to50	-.0969807	.0490756	-1.98	0.048	-.1931671	-.0007943
age51to58	.0024146	.0589334	0.04	0.967	-.1130927	.1179219
age59to66	-.0938128	.0605992	-1.55	0.122	-.2125851	.0249594
age67to74	-.1035693	.0773901	-1.34	0.181	-.2552512	.0481125
age75to82	-.280949	.1084013	-2.59	0.010	-.4934117	-.0684863
age83to90	-.0779999	.1961871	-0.40	0.691	-.4625194	.3065197
age91to98	-.3388342	.2955945	-1.15	0.252	-.9181887	.2405204
/cut1	-.7643387	.0368176			-.8364999	-.6921776
/cut2	-.6914591	.0366292			-.7632511	-.6196671
/cut3	-.1883093	.0359266			-.2587242	-.1178945
/cut4	-.1286008	.0359063			-.1989759	-.0582257
/cut5	1.083907	.0382465			1.008945	1.158869
/cut6	1.206619	.0389804			1.130219	1.283019
/cut7	1.744147	.0449655			1.656016	1.832278
/cut8	2.242225	.0589851			2.126616	2.357834
/cut9	2.404986	.0670384			2.273594	2.536379

```
79. estat ic

  Akaike's information criterion and Bayesian information criterion
```

Model	N	ll(null)	ll(model)	df	AIC	BIC
.	5,318	-8579.296	-8572.891	18	17181.78	17300.2

Note: BIC uses N = number of observations. See **[R] IC note**.

```
80. eststo esttrial3a

81.
82. *Equation 3b, Income by Age scheme 2 ordinal cumulative
83. *note, some info we need is the entropy of age in ten bins, cumlative coding, and al
  > so, the entroyp of the combination income&age2, where income is the one-vector facto
  > r.
84. save "C:/data/AsianBaro/data/AsianBaro2019revForEntropy.dta", replace
  file C:/data/AsianBaro/data/AsianBaro2019revForEntropy.dta saved

85. keep income age2_*

86. *the default version from stata v18 is stata v13.
87. save incomeage2coding.dta, replace
  file incomeage2coding.dta saved

88. keep age2_*

89. save age2coding.dta, replace
  file age2coding.dta saved

90. use  "C:/data/AsianBaro/data/AsianBaro2019revForEntropy.dta", clear

91.
92. * base case is age2_1
93. oprobit incomecat  age2_2 age2_3 age2_4 age2_5 age2_6 age2_7 age2_8 age2_9 age2_10
  >

  Iteration 0:  Log likelihood = -8579.2964
  Iteration 1:  Log likelihood = -8572.8912
  Iteration 2:  Log likelihood =  -8572.891

  Ordered probit regression                         Number of obs =  5,318
                                                    LR chi2(9)    =  12.81
                                                    Prob > chi2   = 0.1714
  Log likelihood = -8572.891                        Pseudo R2     = 0.0007
```

incomecat	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
age2_2	-.0655927	.0479541	-1.37	0.171	-.159581	.0283955
age2_3	-.0221829	.0461224	-0.48	0.631	-.1125812	.0682153
age2_4	-.0092051	.0472917	-0.19	0.846	-.1018951	.0834849
age2_5	.0993953	.0589922	1.68	0.092	-.0162272	.2150179
age2_6	-.0962274	.068873	-1.40	0.162	-.231216	.0387611
age2_7	-.0097565	.0851971	-0.11	0.909	-.1767398	.1572268
age2_8	-.1773797	.1238355	-1.43	0.152	-.4200928	.0653334
age2_9	.2029491	.2187154	0.93	0.353	-.2257252	.6316235
age2_10	-.2608343	.3513663	-0.74	0.458	-.9494997	.4278311
/cut1	-.7643387	.0368176			-.8364999	-.6921776
/cut2	-.6914591	.0366292			-.7632511	-.6196671
/cut3	-.1883093	.0359266			-.2587242	-.1178945
/cut4	-.1286008	.0359063			-.1989759	-.0582257
/cut5	1.083907	.0382465			1.008945	1.158869
/cut6	1.206619	.0389804			1.130219	1.283019
/cut7	1.744147	.0449655			1.656016	1.832278
/cut8	2.242225	.0589851			2.126616	2.357834
/cut9	2.404986	.0670384			2.273594	2.536379

94. estat ic

Akaike's information criterion and Bayesian information criterion

Model	N	ll(null)	ll(model)	df	AIC	BIC
.	5,318	-8579.296	-8572.891	18	17181.78	17300.2

Note: BIC uses N = number of observations. See **[R] IC note**.

95. eststo esttrial3b

96. estimates table esttrial3a esttrial3b

Variable	esttrial3a	esttrial3b
incomecat		
age27to34	-.06559273	
age35to42	-.08777565	
age43to50	-.09698072	
age51to58	.0024146	
age59to66	-.09381283	
age67to74	-.10356932	
age75to82	-.28094901	
age83to90	-.07799988	
age91to98	-.33883418	
age2_2		-.06559273
age2_3		-.02218291
age2_4		-.00920508
age2_5		.09939532
age2_6		-.09622743
age2_7		-.00975649
age2_8		-.17737969
age2_9		.20294914
age2_10		-.2608343
/cut1	-.76433874	-.76433874
/cut2	-.69145912	-.69145912
/cut3	-.18830935	-.18830935
/cut4	-.12860079	-.12860079
/cut5	1.083907	1.083907
/cut6	1.206619	1.206619
/cut7	1.7441468	1.7441468
/cut8	2.242225	2.242225
/cut9	2.4049864	2.4049864

97. etable, estimates(esttrial3a esttrial3b) mstat(N) mstat(aic) mstat(bic) mstat(ll)
> mstat(df) export(trialfile3.pdf, replace)

	incomecat	incomecat
age27to34	-0.066	
	(0.048)	
age35to42	-0.088	
	(0.047)	
age43to50	-0.097	
	(0.049)	
age51to58	0.002	
	(0.059)	
age59to66	-0.094	
	(0.061)	
age67to74	-0.104	
	(0.077)	
age75to82	-0.281	
	(0.108)	
age83to90	-0.078	
	(0.196)	
age91to98	-0.339	

	(0.296)	
age2_2		-0.066
		(0.048)
age2_3		-0.022
		(0.046)
age2_4		-0.009
		(0.047)
age2_5		0.099
		(0.059)
age2_6		-0.096
		(0.069)
age2_7		-0.010
		(0.085)
age2_8		-0.177
		(0.124)
age2_9		0.203
		(0.219)
age2_10		-0.261
		(0.351)
cut1	-0.764	-0.764
	(0.037)	(0.037)
cut2	-0.691	-0.691
	(0.037)	(0.037)
cut3	-0.188	-0.188
	(0.036)	(0.036)
cut4	-0.129	-0.129
	(0.036)	(0.036)
cut5	1.084	1.084
	(0.038)	(0.038)
cut6	1.207	1.207
	(0.039)	(0.039)
cut7	1.744	1.744
	(0.045)	(0.045)
cut8	2.242	2.242
	(0.059)	(0.059)
cut9	2.405	2.405
	(0.067)	(0.067)
Number of observations	5318	5318
AIC	17181.78	17181.78
BIC	17300.20	17300.20
Log likelihood	-8572.89	-8572.89

(collection **ETable** exported to file trialfile3.pdf)

```
98.
99. *Equation 4a, Likert opinBOY by Educ, scheme 1 ordinal distinct
100 oprobit opinBOY edu1_2 edu1_3 edu1_4 edu1_5

  Iteration 0:  Log likelihood = -8237.5598
  Iteration 1:  Log likelihood =  -8220.326
  Iteration 2:  Log likelihood =  -8220.326

  Ordered probit regression                         Number of obs =  5,318
                                                    LR chi2(4)    =  34.47
                                                    Prob > chi2   = 0.0000
  Log likelihood = -8220.326                        Pseudo R2     = 0.0021

------------------------------------------------------------------------------
     opinBOY | Coefficient  Std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
      edu1_2 |   .0887132   .0530996     1.67   0.095    -.0153601    .1927865
      edu1_3 |   .1579533   .0505108     3.13   0.002     .058954    .2569526
      edu1_4 |   .1789137   .0393335     4.55   0.000     .1018215     .256006
      edu1_5 |   .2142138   .0415116     5.16   0.000     .1328526     .295575
-------------+----------------------------------------------------------------
       /cut1 |  -.7682291   .0294986                     -.8260454   -.7104129
       /cut2 |  -.0910526   .0279209                     -.1457765   -.0363288
       /cut3 |   .1447523   .0279639                      .089944    .1995606
       /cut4 |   .6444716   .0289274                     .5877749    .7011683
------------------------------------------------------------------------------
```

```
101 estat ic
```

Akaike's information criterion and Bayesian information criterion

Model	N	ll(null)	ll(model)	df	AIC	BIC
.	5,318	-8237.56	-8220.326	8	16456.65	16509.28

Note: BIC uses N = number of observations. See **[R] IC note**.

```
102 eststo esttrial4a

103 *save and compare results
104
105 *Equation 4b, Likert opinBOY by Educ, scheme 2 ordinal cumulative
106 oprobit opinBOY edu2_2 edu2_3 edu2_4 edu2_5
```

Iteration 0: Log likelihood = **-8237.5598**
Iteration 1: Log likelihood = **-8220.326**
Iteration 2: Log likelihood = **-8220.326**

Ordered probit regression — Number of obs = **5,318**
LR chi2(**4**) = **34.47**
Prob > chi2 = **0.0000**
Log likelihood = **-8220.326** — Pseudo R2 = **0.0021**

opinBOY	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
edu2_2	.0887132	.0530996	1.67	0.095	-.0153601	.1927865
edu2_3	.0692401	.0629098	1.10	0.271	-.0540609	.192541
edu2_4	.0209604	.0518071	0.40	0.686	-.0805796	.1225005
edu2_5	.0353	.0430676	0.82	0.412	-.0491109	.1197109
/cut1	-.7682291	.0294986			-.8260454	-.7104129
/cut2	-.0910526	.0279209			-.1457765	-.0363288
/cut3	.1447523	.0279639			.089944	.1995606
/cut4	.6444716	.0289274			.5877749	.7011683

```
107 estat ic
```

Akaike's information criterion and Bayesian information criterion

Model	N	ll(null)	ll(model)	df	AIC	BIC
.	5,318	-8237.56	-8220.326	8	16456.65	16509.28

Note: BIC uses N = number of observations. See **[R] IC note**.

```
108 eststo esttrial4b

109
110 estimates table esttrial4a esttrial4b
```

Variable	esttrial4a	esttrial4b
opinBOY		
edu1_2	.0887132	
edu1_3	.1579533	
edu1_4	.17891374	
edu1_5	.21421377	
edu2_2		.0887132
edu2_3		.06924009
edu2_4		.02096045
edu2_5		.03530003
/cut1	-.76822913	-.76822913
/cut2	-.09105263	-.09105263

/cut3	.1447523 .1447523
/cut4	.64447157 .64447157

```
111 etable, estimates(esttrial4a  esttrial4b)  mstat(N) mstat(aic) mstat(bic) mstat(ll)
  >   mstat(df) export(trialfile4.pdf, replace)
```

	opinBOY	opinBOY
edu1_2	0.089	
	(0.053)	
edu1_3	0.158	
	(0.051)	
edu1_4	0.179	
	(0.039)	
edu1_5	0.214	
	(0.042)	
edu2_2		0.089
		(0.053)
edu2_3		0.069
		(0.063)
edu2_4		0.021
		(0.052)
edu2_5		0.035
		(0.043)
cut1	-0.768	-0.768
	(0.029)	(0.029)
cut2	-0.091	-0.091
	(0.028)	(0.028)
cut3	0.145	0.145
	(0.028)	(0.028)
cut4	0.644	0.644
	(0.029)	(0.029)
Number of observations	5318	5318
AIC	16456.65	16456.65
BIC	16509.28	16509.28
Log likelihood	-8220.33	-8220.33

(collection **ETable** exported to file trialfile4.pdf)

```
112
113
114 *Equation 5a, Likerts opinBOY by Age, scheme 1 ordinal distinct
115 oprobit opinBOY      age27to34       age35to42  age43to50   age51to58       age59to6
  > 6       age67to74       age75to82       age83to90       age91to98

  Iteration 0:  Log likelihood = -8237.5598
  Iteration 1:  Log likelihood = -8234.1083
  Iteration 2:  Log likelihood = -8234.1081

  Ordered probit regression                              Number of obs =  5,318
                                                         LR chi2(9)    =   6.90
                                                         Prob > chi2   = 0.6472
  Log likelihood = -8234.1081                            Pseudo R2     = 0.0004
```

opinBOY	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
age27to34	-.0078473	.0487445	-0.16	0.872	-.1033848	.0876903
age35to42	-.0005494	.0479894	-0.01	0.991	-.0946069	.093508
age43to50	.006815	.0498633	0.14	0.891	-.0909154	.1045454
age51to58	-.0331444	.0597426	-0.55	0.579	-.1502377	.0839489
age59to66	-.0167397	.0612615	-0.27	0.785	-.13681	.1033307
age67to74	-.0350985	.0778419	-0.45	0.652	-.1876658	.1174689
age75to82	-.0144932	.1072472	-0.14	0.893	-.2246938	.1957073
age83to90	-.4502023	.1967258	-2.29	0.022	-.8357777	-.0646269
age91to98	.273077	.295965	0.92	0.356	-.3070037	.8531576
/cut1	-.8950769	.0377663			-.9690974	-.8210564
/cut2	-.2184413	.0365063			-.2899923	-.1468903
/cut3	.0165911	.0364044			-.0547602	.0879423

/cut4	.513676	.0367657		.4416165	.5857356

```
116 eststo esttrial5a

117 *Equation 5b, Likerts opinBOY by Age, scheme 2 ordinal cumulative
118 oprobit opinBOY age2_2 age2_3 age2_4 age2_5 age2_6 age2_7 age2_8 age2_9 age2_10
  >

  Iteration 0:  Log likelihood = -8237.5598
  Iteration 1:  Log likelihood = -8234.1083
  Iteration 2:  Log likelihood = -8234.1081

  Ordered probit regression                       Number of obs =  5,318
                                                  LR chi2(9)    =   6.90
                                                  Prob > chi2   = 0.6472
  Log likelihood = -8234.1081                     Pseudo R2     = 0.0004
```

opinBOY	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
age2_2	-.0078473	.0487445	-0.16	0.872	-.1033848	.0876903
age2_3	.0072979	.0467713	0.16	0.876	-.0843723	.098968
age2_4	.0073644	.0479356	0.15	0.878	-.0865876	.1013165
age2_5	-.0399595	.0596983	-0.67	0.503	-.156966	.0770471
age2_6	.0164048	.0694991	0.24	0.813	-.1198109	.1526205
age2_7	-.0183588	.0855582	-0.21	0.830	-.1860498	.1493321
age2_8	.0206052	.1227525	0.17	0.867	-.2199853	.2611957
age2_9	-.4357091	.2184176	-1.99	0.046	-.8637998	-.0076184
age2_10	.7232793	.3518757	2.06	0.040	.0336156	1.412943
/cut1	-.8950769	.0377663			-.9690974	-.8210564
/cut2	-.2184413	.0365063			-.2899923	-.1468903
/cut3	.0165911	.0364044			-.0547602	.0879423
/cut4	.513676	.0367657			.4416165	.5857356

```
119 estat ic

  Akaike's information criterion and Bayesian information criterion
```

Model	N	ll(null)	ll(model)	df	AIC	BIC
.	5,318	-8237.56	-8234.108	13	16494.22	16579.74

```
  Note: BIC uses N = number of observations. See [R] IC note.

120 eststo esttrial5b

121 estimates table esttrial5a esttrial5b
```

Variable	esttrial5a	esttrial5b
opinBOY		
age27to34	-.00784729	
age35to42	-.00054943	
age43to50	.00681502	
age51to58	-.03314444	
age59to66	-.01673966	
age67to74	-.03509847	
age75to82	-.01449325	
age83to90	-.45020231	
age91to98	.27307695	
age2_2		-.00784729
age2_3		.00729785
age2_4		.00736445
age2_5		-.03995946
age2_6		.01640479
age2_7		-.01835881
age2_8		.02060522

age2_9		**-.43570906**
age2_10		**.72327926**
/cut1	**-.89507691**	**-.89507691**
/cut2	**-.21844131**	**-.21844131**
/cut3	**.01659109**	**.01659109**
/cut4	**.51367605**	**.51367605**

```
122 etable, estimates(esttrial5a  esttrial5b)  mstat(N) mstat(aic) mstat(bic) mstat(ll)
  >  mstat(df) export(trialfile5.pdf, replace)
```

	opinBOY	opinBOY
age27to34	**-0.008**	
	(0.049)	
age35to42	**-0.001**	
	(0.048)	
age43to50	**0.007**	
	(0.050)	
age51to58	**-0.033**	
	(0.060)	
age59to66	**-0.017**	
	(0.061)	
age67to74	**-0.035**	
	(0.078)	
age75to82	**-0.014**	
	(0.107)	
age83to90	**-0.450**	
	(0.197)	
age91to98	**0.273**	
	(0.296)	
age2_2		**-0.008**
		(0.049)
age2_3		**0.007**
		(0.047)
age2_4		**0.007**
		(0.048)
age2_5		**-0.040**
		(0.060)
age2_6		**0.016**
		(0.069)
age2_7		**-0.018**
		(0.086)
age2_8		**0.021**
		(0.123)
age2_9		**-0.436**
		(0.218)
age2_10		**0.723**
		(0.352)
cut1	**-0.895**	**-0.895**
	(0.038)	**(0.038)**
cut2	**-0.218**	**-0.218**
	(0.037)	**(0.037)**
cut3	**0.017**	**0.017**
	(0.036)	**(0.036)**
cut4	**0.514**	**0.514**
	(0.037)	**(0.037)**
Number of observations	**5318**	**5318**
AIC	**16494.22**	**16494.22**
BIC	**16579.74**	**16579.74**
Log likelihood	**-8234.11**	**-8234.11**

(collection **ETable** exported to file trialfile5.pdf)

```
123
124 *Equation 6a, Likerts opinBOY by Income, scheme 1 ordinal distinct
125 oprobit opinBOY i.incomecat

  Iteration 0:  Log likelihood = -8237.5598
  Iteration 1:  Log likelihood = -8211.0363
  Iteration 2:  Log likelihood = -8211.0325
  Iteration 3:  Log likelihood = -8211.0325

  Ordered probit regression                         Number of obs =  5,318
                                                    LR chi2(9)    =  53.05
                                                    Prob > chi2   = 0.0000
  Log likelihood = -8211.0325                       Pseudo R2     = 0.0032
```

opinBOY	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
incomecat						
2	.02079	.1014995	0.20	0.838	-.1781454	.2197254
3	.1634993	.0453483	3.61	0.000	.0746181	.2523804
4	.3614329	.103182	3.50	0.000	.1591998	.563666
5	.0938098	.0378068	2.48	0.013	.0197099	.1679098
6	.2160247	.1013819	2.13	0.033	.0173198	.4147296
7	.3229381	.0643719	5.02	0.000	.1967715	.4491048
8	.0821371	.0997083	0.82	0.410	-.1132877	.2775618
9	.7276856	.2536483	2.87	0.004	.2305441	1.224827
10	-.4080026	.1872391	-2.18	0.029	-.7749845	-.0410207
/cut1	-.7858847	.0324219			-.8494305	-.7223388
/cut2	-.1045807	.0311326			-.1655995	-.0435619
/cut3	.1318634	.0311362			.0708376	.1928892
/cut4	.6307203	.0318159			.5683623	.6930782

```
126 estat ic

  Akaike's information criterion and Bayesian information criterion
```

Model	N	ll(null)	ll(model)	df	AIC	BIC
.	5,318	-8237.56	-8211.033	13	16448.07	16533.59

```
  Note: BIC uses N = number of observations. See [R] IC note.

127 eststo esttrial6a

128
129 *Equation 6b, Likerts opinBOY by Income, scheme 2 ordinal cumulative
130 oprobit opinBOY     inc2_2 inc2_3 inc2_4 inc2_5 inc2_6 inc2_7 inc2_8 inc2_9 inc2_10

  Iteration 0:  Log likelihood = -8237.5598
  Iteration 1:  Log likelihood = -8211.0363
  Iteration 2:  Log likelihood = -8211.0325
  Iteration 3:  Log likelihood = -8211.0325

  Ordered probit regression                         Number of obs =  5,318
                                                    LR chi2(9)    =  53.05
                                                    Prob > chi2   = 0.0000
  Log likelihood = -8211.0325                       Pseudo R2     = 0.0032
```

opinBOY	Coefficient	Std. err.	z	P>|z|	[95% conf.	interval]
inc2_2	.02079	.1014995	0.20	0.838	-.1781454	.2197254
inc2_3	.1427093	.1028834	1.39	0.165	-.0589384	.3443569
inc2_4	.1979336	.1045153	1.89	0.058	-.0069126	.4027799
inc2_5	-.2676231	.101486	-2.64	0.008	-.4665319	-.0687142
inc2_6	.1222149	.099661	1.23	0.220	-.0731171	.3175469
inc2_7	.1069134	.11244	0.95	0.342	-.113465	.3272919
inc2_8	-.2408011	.1109504	-2.17	0.030	-.4582598	-.0233423
inc2_9	.6455485	.2692555	2.40	0.017	.1178175	1.173279
inc2_10	-1.135688	.3124828	-3.63	0.000	-1.748143	-.523233
/cut1	-.7858847	.0324219			-.8494305	-.7223388
/cut2	-.1045807	.0311326			-.1655995	-.0435619
/cut3	.1318634	.0311362			.0708376	.1928892
/cut4	.6307203	.0318159			.5683623	.6930782

131 estat ic

Akaike's information criterion and Bayesian information criterion

Model	N	ll(null)	ll(model)	df	AIC	BIC
.	5,318	-8237.56	-8211.033	13	16448.07	16533.59

Note: BIC uses N = number of observations. See **[R] IC note**.

132 eststo esttrial6b

133 estimates table esttrial6a esttrial6b

Variable	esttrial6a	esttrial6b
opinBOY		
incomecat		
2	.02078999	
3	.16349925	
4	.36143289	
5	.09380982	
6	.21602471	
7	.32293814	
8	.08213707	
9	.72768556	
10	-.40800259	
inc2_2		.02078999
inc2_3		.14270926
inc2_4		.19793364
inc2_5		-.26762307
inc2_6		.1222149
inc2_7		.10691343
inc2_8		-.24080107
inc2_9		.64554848
inc2_10		-1.1356881
/cut1	-.78588466	-.78588466
/cut2	-.1045807	-.1045807
/cut3	.13186337	.13186337
/cut4	.63072026	.63072026

```
134 etable, estimates(esttrial6a  esttrial6b)  mstat(N) mstat(aic) mstat(bic) mstat(ll)
  >  mstat(df) export(trialfile6.pdf, replace)
```

	opinBOY	opinBOY
incomecat		
2	0.021	
	(0.101)	
3	0.163	
	(0.045)	
4	0.361	
	(0.103)	
5	0.094	
	(0.038)	
6	0.216	
	(0.101)	
7	0.323	
	(0.064)	
8	0.082	
	(0.100)	
9	0.728	
	(0.254)	
10	-0.408	
	(0.187)	
inc2_2		0.021
		(0.101)
inc2_3		0.143
		(0.103)
inc2_4		0.198
		(0.105)
inc2_5		-0.268
		(0.101)
inc2_6		0.122
		(0.100)
inc2_7		0.107
		(0.112)
inc2_8		-0.241
		(0.111)
inc2_9		0.646
		(0.269)
inc2_10		-1.136
		(0.312)
cut1	-0.786	-0.786
	(0.032)	(0.032)
cut2	-0.105	-0.105
	(0.031)	(0.031)
cut3	0.132	0.132
	(0.031)	(0.031)
cut4	0.631	0.631
	(0.032)	(0.032)
Number of observations	5318	5318
AIC	16448.07	16448.07
BIC	16533.59	16533.59
Log likelihood	-8211.03	-8211.03

(collection **ETable** exported to file trialfile6.pdf)

```
135
136
```

```
137
138
139 tab age2_9
```

age2_9	Freq.	Percent	Cum.
0	**5,274**	**99.17**	**99.17**
1	**44**	**0.83**	**100.00**
Total	**5,318**	**100.00**	

```
140 tab inc2_2 incomecat
```

inc2_2	incomecat 1	2	3	4	5	6	7	8	Total
0	**1,293**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1,293**
1	**0**	**124**	**985**	**126**	**2,125**	**125**	**3**	**53**	**4,025**
Total	**1,293**	**124**	**985**	**126**	**2,125**	**125**	**3**	**53**	**5,318**

inc2_2	incomecat 9	10	Total
0	**0**	**0**	**1,293**
1	**20**	**36**	**4,025**
Total	**20**	**36**	**5,318**

```
141
142
143 save "C:/data/AsianBaro/data/AsianBaro2019revForEntropy2.dta", replace
  file C:/data/AsianBaro/data/AsianBaro2019revForEntropy2.dta saved

144 *Note the new data "2" can be used outside this set of trials.
145
146 log close
       name:  <unnamed>
        log:  C:\data\AsianBaro\logtrials1Entropy.smcl
   log type:  smcl
  closed on:  10 Sep 2024, 15:53:18
```