

**COMPARISON OF KNOWN DATA-SET  
UNDER THE 4 DATA-TYPE OPTIONS IN RSA:  
18 4-stimuli I-scales in 2D  
INPUT DATA I-scales**

**i) COOMBSIAN I-SCALES**

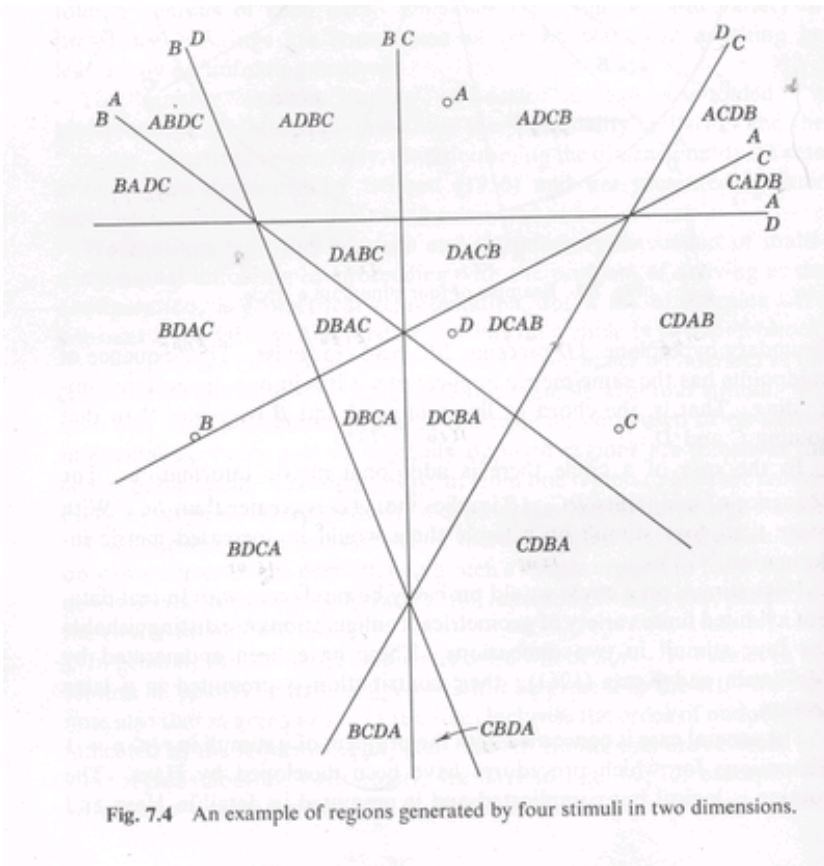
**RUN**

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```
RUN NAME      MINIRSA TEST DATA
COMMENT       18 I-SCALES OF 4-POINT 2D CONFIGURATION
              COOMBS 1964, P146 & COXON TUG P142
              (nb: Coxon F8.8 has error for #7)
              but OK in Coombs. Corrected here)
              nb: FORMAT INCLUDES SPACE FOR FREQUENCY
```

```
# OF SUBJECTS 18
# OF STIMULI  4
DIMENSIONS    2
PLOT          ALL
PRINT DATA   YES
ITERATIONS    100
PARAMETERS    DATA (1)
INPUT FORMAT  (3X,5I1)
READ MATRIX
```

data	INPUT data	(echo BY	PRINT DATA YES)			CRCONF
0011432	ROW	1 1	4	3	2 = ADCB	1 * 2 3 4 1 =
0021342	ROW	2 1	3	4	2 = ACDB	2 * 2 4 3 1
0033142	ROW	3 3	1	4	2	3 * 2 4 1 3
0043412	ROW	4 3	4	1	2	4 * 2 1 4 3
0053421	ROW	5 3	4	2	1	5 * 1 2 4 3
0063241	ROW	6 3	2	4	1	6 * 1 4 2 3
0072341	ROW	7 2	3	4	1	7 * 1 4 3 2
0082431	ROW	8 2	4	3	1	8 * 1 3 4 2
0092413	ROW	9 2	4	1	3	9 * 3 1 4 2
0102143	ROW	10 2	1	4	3	10 * 3 4 1 2
0111243	ROW	11 1	2	4	3	11 * 3 4 2 1
0121423	ROW	12 1	4	2	3	12 * 3 2 4 1
0134123	ROW	13 4	1	2	3	13 * 3 2 1 4
0144132	ROW	14 4	1	3	2	14 * 2 4 1 3
0154312	ROW	15 4	3	1	2	15 * 2 1 3 4
0164321	ROW	16 4	3	2	1	16 * 1 2 3 4
0174231	ROW	17 4	2	3	1	17 * 1 3 2 4
0184213	ROW	18 4	2	1	3 = DBAC	18 * 3 1 2 4



DATA-TYPE	end iter #	$S_2$	$S_2$ PC.	Stimulus Space	Subject space	Comment
O	25	0.0016070503	0.00005	Perfect (reflected in X)	Perfect	PCS are open regions
<b>1</b>	<b>25</b>	<b>0.0016070503</b>	<b>0.00005</b>	<b>Perfect</b>	<b>Perfect</b>	<b>PCS are open regions</b>
2	107	0.20372576	0.74708	Perfect	Circular but opp. Ends and inner/outer circle	Inside out: reverse I-scale?
3	107	0.20372756	0.74709	Perfect	Zig-zag all over the place	no reconstruction
4	25	0.0016071200	0.00005	Perfect (Refl)	Zig-zag	no reconstruction

## ii) REVERSE I-SCALES:

RUN NAME REVERSE ISCALES  
 COMMENT 18 REVERSED I-SCALES OF 4-POINT 2D CONFIGURATION  
 COOMBS 1964, P146 & COXON TUG P142  
 (nb: Coxon F8.8 has error for #7)  
 but OK in Coombs. Corrected here)  
 CORRECTED AGAIN FOR MY MISTYPES!  
 nb: FORMAT INCLUDES SPACE FOR FREQUENCY

# OF SUBJECTS 18  
 # OF STIMULI 4  
 DIMENSIONS 2  
 PLOT ALL  
 PRINT DATA YES  
 ITERATIONS 100  
 PARAMETERS DATA (0)  
 INPUT FORMAT (4X,511)  
 READ MATRIX  
 001 2341  
 002 2431  
 003 2413  
 004 2143  
 005 1243  
 006 1423  
 007 1432  
 008 1342  
 009 3142 NOW CORRECT  
 010 3412  
 011 3421  
 012 3241  
 013 3214  
 014 2314  
 015 2134  
 016 1234  
 017 1324  
 018 3124  
 COMPUTE  
 FINISH

DATA-TYPE	end iter #	S <sub>2</sub>	S <sub>2</sub> PC.	Stimulus Space	Subject space	Comment
O	146	0.203725 76	0.74708	CORRECT	sequence OK, but inverted	as it should be if interpreted as Iscales
1						identical to 0
2	25	0.001607 0503	0.0005	CORRECT (FLIPPED IN y)	CORRECT	this is it!
3						
4						

### iii) FIXED SCORE (Hi score = Hi pref):

COMMENT 18 I-SCALES IN 2-D (COOMBS TEST) AS RANK SCORES  
IN FIXED COLUMNS, HI=HI

0014123  
0024132  
0033142  
0042143  
0051243  
0061342  
0071432  
0081423  
0092413  
0103412  
0114312  
0124213  
0133214  
0143142  
0152134  
0161234  
0171324  
0182314

DATA-TYPE	end iter #	S <sub>2</sub>	S <sub>2</sub> PC.	Stimulus Space	Subject space	Comment
O	25	0.00264 2569	0.00013	inverted, with A at centre	all over the place	low stress but no recovery
1	106	0.002038 0682E+0	0.74767	inverted	all over	identical to 0
2	145	0.20380682E +00	0.74767	inverted	zigzag	
3	35	<b>0.004563 6836</b>	0.00037	<b>right, flipped</b>	<b>correct sequence</b>	<b>full recovery(CRConf data reverse of input</b>
4	235	0.17378400E +00	0.54362	quite good	sequence but flipped	input=CRCONF

iv) **REVERSE FIXED SCORE (Hi score = LEAST preferred)**

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RUN NAME      MINIRSA TEST DATA
COMMENT       18 I-SCALES OF 4-POINT 2D CONFIGURATION
              COOMBS 1964, P146 & COXON TUG P142
              (nb: Coxon F8.8 has error for #7)
              but OK in Coombs. Corrected here)
              nb: FORMAT INCLUDES SPACE FOR FREQUENCY
COMMENT       **AS RANK SCORES IN FIXED COLUMNS, HI=LO PEF
# OF SUBJECTS 18
# OF STIMULI  4
DIMENSIONS    2
PLOT          ALL
PRINT DATA   YES
ITERATIONS    100
PARAMETERS    DATA (0)
COMMENT       INPUT FORMAT   (3X,5I1) FOR SCORE
INPUT FORMAT  (8X,5I1)
COMMENT       FOR REVERSE SCORE
READ MATRIX
0014123 1432
0024132 1423
0033142 2413
0042143 3412
0051243 4312
0061342 4213
0071432 4123
0081423 4132
0092413 3142
0103412 2143
0114312 1243
0124213 1342
0133214 2341
0143142 2413
0152134 3421
0161234 4321
0171324 4231
0182314 3241
COMPUTE
FINISH
    
```

DATA-TYPE	end iter #	S <sub>2</sub>	S <sub>2</sub> PC.	Stimulus Space	Subject space	Comment
O	25	0.002642589 6	0.00013	IMPLODED	ALL OVER ...	
1	25	0.002642589 6	0.00013	OK reflected	some structure but incorrect	
2	145	0.35302654E	0.74766	OK	same as #1	
3	135	0.17830351E +00	0.57226	no	<b>inverted outer-circle</b>	
4	35	0.004563683	0.00037	<b>OK; flipped in Y</b>	Correct	<b>THIS IS IT!!</b>

(incorrect runs)

**NB: INCORRECT DATA COXON MISTYPES 9-18!!**

COMMENT 18 REVERSE I-SCALES OF  
4-POINT 2D CONFIGURATION  
COOMBS 1964, P146 & COXON TUG P142  
nb: FORMAT INCLUDESPACE FOR FREQUENCY  
corrected I-S #7

INPUT FORMAT (4X,5I)

READ MATRIX

001 2341

002 2431

003 2413

004 2143

005 1243

006 1423

007 1432

008 1342

**009 2 413 from here on, the original I-scales not reverse!!!**

**010 2143**

**011 1243**

**012 1423**

**013 4123**

**014 4132**

**015 4312**

**016 4321**

**017 4231**

**018 4213**

DATA-TYPE	end iter #	S <sub>2</sub>	S <sub>2</sub> PC.	Stimulus Space	Subject space	Comment
0	55	0.005079206	0.00046	Flipped in y-axis	sequence, but inverted	
1	55	0.005079206 1	0.00046	Flipped in y-axis	sequence, but inverted	
2	80	0.005171388	0.00048	imploded	some sequence	
3	<b>80</b>	<b>0.005171388</b> <b>4</b>	<b>0.00048</b>	<b>incorrect</b>	<b>some seq., incorrect</b>	
4	25	0.003384830 2	0.00021	correct flipped	bizarre 2 oval sequences...	<u>(now I know why ... my reversal mistakes!)</u>