

```
*****
* Output from:                               Wed Mar  4 14:13:03 1998 *
*
*                               MAPMAKER/EXP                       *
*                               (version 3.0b)                     *
*
*****
```

'photo' is on: file is 'araba.out'

2> **prepare data araba.raw**

```
preparing data from file 'araba.raw'... ok
RI (selfing) data (101 individuals, 8 loci)... ok
unable to run file 'araba.prep'... skipping initialization
saving genotype data in file 'araba.data'... ok
saving map data in file 'araba.maps'... ok
```

3> **sequence all**

sequence #1= all

4> **group 3 30**

Linkage Groups at min LOD 3.00, max Distance 30.0

group1= 1 2 3 4 5 6 7 8

5> **lod**

Bottom number is LOD score, top number is centimorgan distance:

	1	2	3	4	5	6	7
2	4.2						
	17.18						
3	8.1	4.4					
	12.19	16.38					
4	18.1	24.0	31.4				
	5.84	3.92	2.57				
5	6.3	11.0	16.3	15.3			
	14.43	9.68	6.75	7.12			
6	28.2	40.1	53.1	10.7	31.0		
	3.27	1.64	0.86	10.12	2.85		
7	9.5	5.7	2.3	35.5	17.4	62.6	
	11.32	14.87	20.79	2.15	6.62	0.57	
8	10.8	17.1	21.0	7.2	6.3	17.6	22.1
	9.90	6.18	4.86	13.28	14.43	6.43	4.80

6> **sequence {1 3 4 5 8}**

sequence #2= {1 3 4 5 8}

7> **compare**

Best 20 orders:

1:	3 1 5 8 4	Like: 0.00
2:	3 1 5 4 8	Like: -6.67
3:	1 3 5 8 4	Like: -7.32
4:	5 1 3 8 4	Like: -8.50
5:	5 8 4 1 3	Like: -8.73
6:	3 5 1 8 4	Like: -9.08
7:	1 5 8 4 3	Like: -9.74
8:	4 5 8 1 3	Like: -9.88
9:	4 3 1 5 8	Like: -10.49
10:	5 4 8 1 3	Like: -11.07
11:	5 3 1 8 4	Like: -11.12
12:	5 1 3 4 8	Like: -11.25
13:	5 8 4 3 1	Like: -11.46
14:	5 1 8 4 3	Like: -13.33
15:	3 5 8 4 1	Like: -13.93
16:	5 8 1 3 4	Like: -14.08
17:	1 5 4 8 3	Like: -14.09
18:	3 5 1 4 8	Like: -14.13
19:	1 5 3 8 4	Like: -14.14
20:	1 3 5 4 8	Like: -14.18

order1 is set

8> **sequence 3 1 5 8 4**
sequence #3= 3 1 5 8 4

9> **try 2 6 7**

	2	6	7
3	-4.81	-9.54	0.00
1	0.00	-18.94	-1.58
5	-8.82	-18.98	-18.25
8	-18.79	-15.08	-24.35
4	-24.30	-7.41	-27.78
INF	-17.58	0.00	-19.46
BEST	-21.86	-10.47	-21.93
BEST	-94.98	-107.57	-96.42

10> **sequence 3 2 1 5 8 4 6**
sequence #4= 3 2 1 5 8 4 6

11> **try 7**

	7
3	0.00
2	-2.04
1	-12.13
5	-18.32
8	-24.31
4	-28.21
6	-29.39
INF	-21.35
BEST	-21.99
BEST	-121.22

12> **sequence 7 3 2 1 5 8 4 6**
sequence #5= 7 3 2 1 5 8 4 6

13> **map**

```
=====  
Map:  
Markers      Distance  
7 m246       2.2 cM  
3 g4553      4.0 cM  
2 g4532      4.0 cM  
1 g4133      6.4 cM  
5 m216       6.8 cM  
8 m251       7.1 cM  
4 g6842     10.5 cM  
6 m220  
-----  
41.1 cM   8 markers   log-likelihood= -121.22  
=====
```

14> **ripple**

```
=====  
Map To Test:  
Markers      Distance  
7 m246       2.2 cM  
3 g4553      4.0 cM  
2 g4532      4.0 cM  
1 g4133      6.4 cM  
5 m216       6.8 cM  
8 m251       7.1 cM  
4 g6842     10.5 cM
```

6 m220 -----
41.1 cM 8 markers log-likelihood= -121.22

=====
Window-size: 5 Log-likelihood Threshold: 2.00

Comparing maps with ALL flanking markers...

compare {7 3 2 1 5}... ok
compare ...{3 2 1 5 8}... ok
compare ...{2 1 5 8 4}... ok
compare ...{1 5 8 4 6} ok

=====
15> quit

save data before quitting? [yes] y
saving map data in file 'araba.maps'... ok
saving two-point data in file 'araba.2pt'... ok

...goodbye...