UNEXPLAINED COINCIDENCES FOR 123

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ABSTRACT. The following coincidences are found by first applying the Shading Algorithm to get all coincidence classes on the pattern 123. Then for each class we pick (one of) the least shaded pattern(s) and compute the avoiding permutations of lengths $0, \ldots, 9$. If two (or more) classes turn out to have the same avoiding permutations they are listed together below.

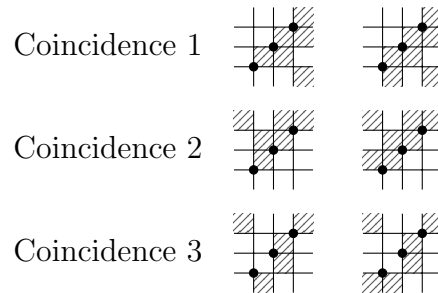## 1. PARAMETERS USED BY THE SHADING ALGORITHM

depth	multbox	q_check	forcelen	#united
-1	False	False	0	30910
1	False	False	1	8
1	False	False	2	0
1	False	False	3	0
1	False	True	1	500
1	False	True	2	0
1	False	True	3	0
1	True	False	1	0
1	True	False	2	428
1	True	False	3	40
1	True	True	1	0
1	True	True	2	16
1	True	True	3	0
2	False	False	1	0
2	False	False	2	0
2	False	False	3	0
2	False	True	1	0
2	False	True	2	0
2	False	True	3	0
2	True	False	1	0
2	True	False	2	0
2	True	False	3	0
2	True	True	1	30
2	True	True	2	2
2	True	True	3	0
3	False	False	1	52
3	False	False	2	0

3	False	False	3	0
3	False	True	1	0
3	False	True	2	0
3	False	True	3	0
3	True	False	1	0
3	True	False	2	2
3	True	False	3	0
3	True	True	1	0
3	True	True	2	0
3	True	True	3	0
4	False	False	1	4
4	False	False	2	0
4	False	False	3	0
4	False	True	1	0
4	False	True	2	0
4	False	True	3	0
4	True	False	1	4
4	True	False	2	0
4	True	False	3	0
4	True	True	1	0
4	True	True	2	0
4	True	True	3	0
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5	False	False	2	0
5	False	False	3	0
5	False	True	1	0
5	False	True	2	0
5	False	True	3	0
5	True	False	1	2
5	True	False	2	0
5	True	False	3	0
5	True	True	1	0
5	True	True	2	0

2. COINCIDENCES

Coincidence 1

Coincidence 2

Coincidence 3

Coincidence 4

Coincidence 5

Coincidence 6

Coincidence 7

Coincidence 8

Coincidence 9

Coincidence 10

Coincidence 11

Coincidence 12

Coincidence 13

Coincidence 14

Coincidence 15

Coincidence 16

Coincidence 17

Coincidence 18

Coincidence 19

Coincidence 20

Coincidence 21

Coincidence 22
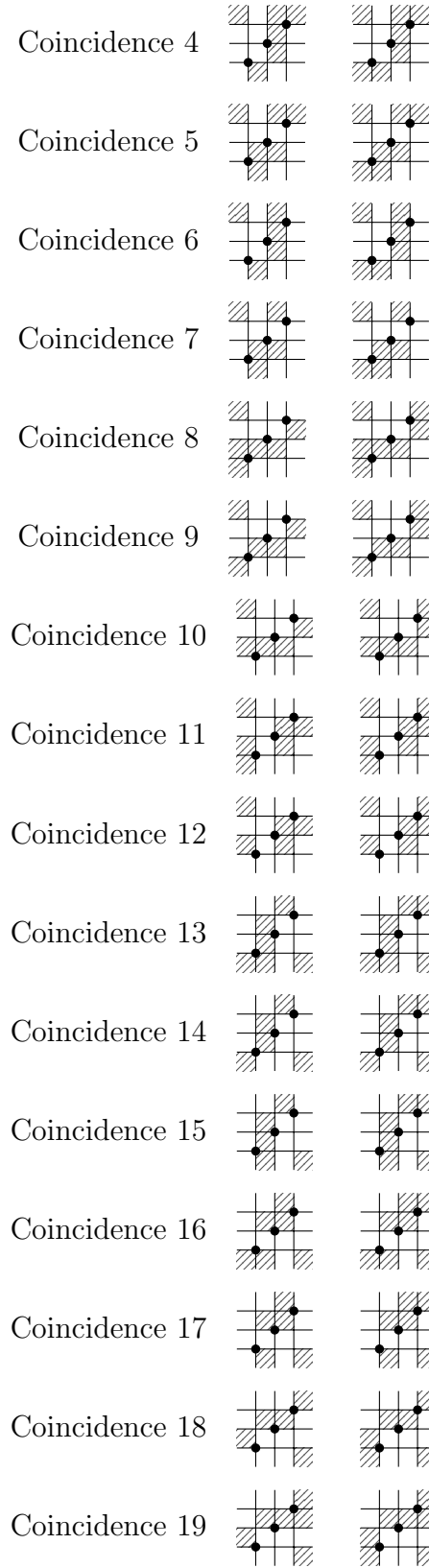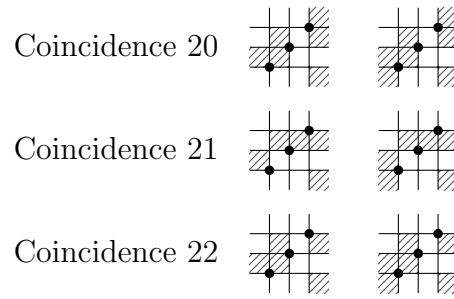
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