

Initial configuration

x	0	1	2	3
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y	0	1	2	3
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A	0,0	1,1	2,2	3,3
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After the first permutation

x	0	1	2	3
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y	1	0	3	2
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A	0,1	1,0	2,3	3,2
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After the second permutation

x	0	1	2	3
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y	2	3	0	1
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A	0,2	1,3	2,0	3,1
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After the third permutation

x	0	1	2	3
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y	3	2	1	0
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A	0,3	1,2	2,1	3,0
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