

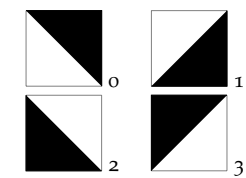
TRUCHET BOOK (I)

4X4 PATTERNS WITH ROTATIONAL
SYMMETRY

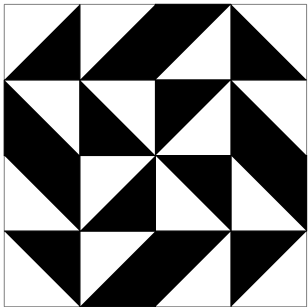
Introduction

This booklet presents a complete listing of 4x4 Truchet tile patterns with rotational symmetry. Truchet tiles are, traditionally, square tiles that are divided by a diagonal line, and coloured with two colours with a different colour on either side of the diagonal. Each tile can be rotated to one of four positions. Patterns are formed by placing tiles next to each other, often rotating tiles to create repeated motifs.

Each 4x4 Truchet tile pattern with rotational symmetry has a core 2x2 pattern in one of its quadrants that is rotated to produce the overall pattern. In this booklet, the core pattern is assumed to be in the lower left. Each pattern can identified as a sequence of 4 digits *abcd* that list the rotational positions of each tile in the lower left quadrant.



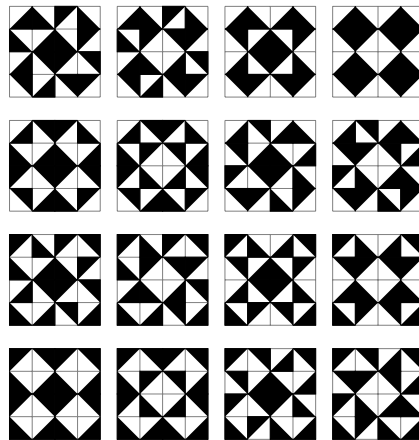
a	q	c	e
c	p	p	q
b	d	d	c
a	c	b	a



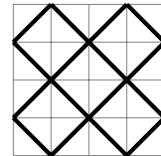
The 0011 pattern

Pattern families

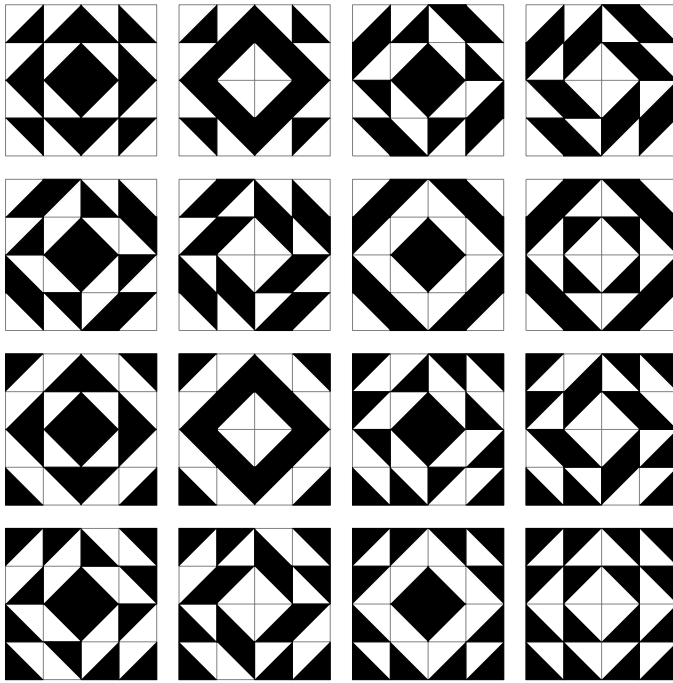
We can group the 4×4 Truchet tile patterns with rotational symmetry into families where tile patterns are considered to be in the same family if they would look the same without colour – if each corresponding tile shares the same diagonal direction. The sequence that represents the family of a tile pattern can be found by taking the sequence of the tile pattern *modulo* 2. So, for example, the 16 tile patterns below are all members of the 0110 family.



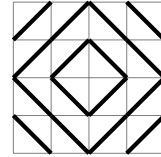
The 0110 pattern family



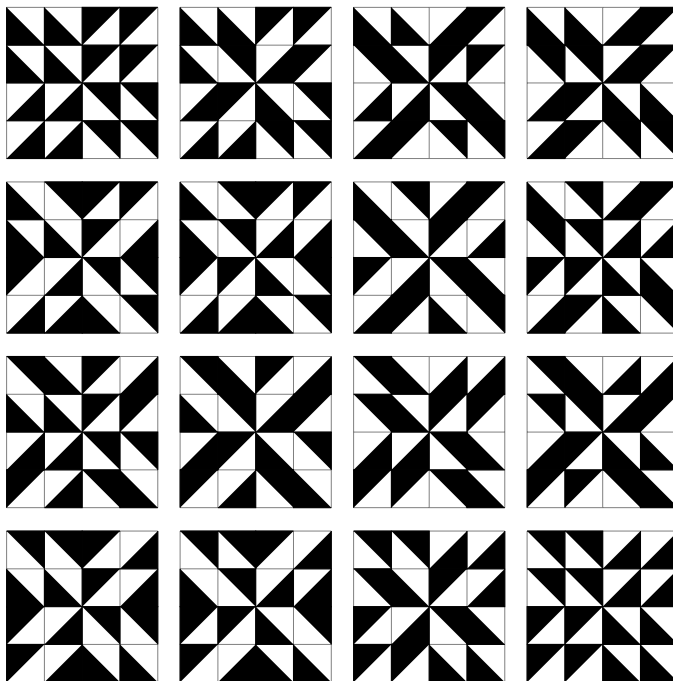
The 0110 family pattern



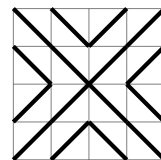
0000



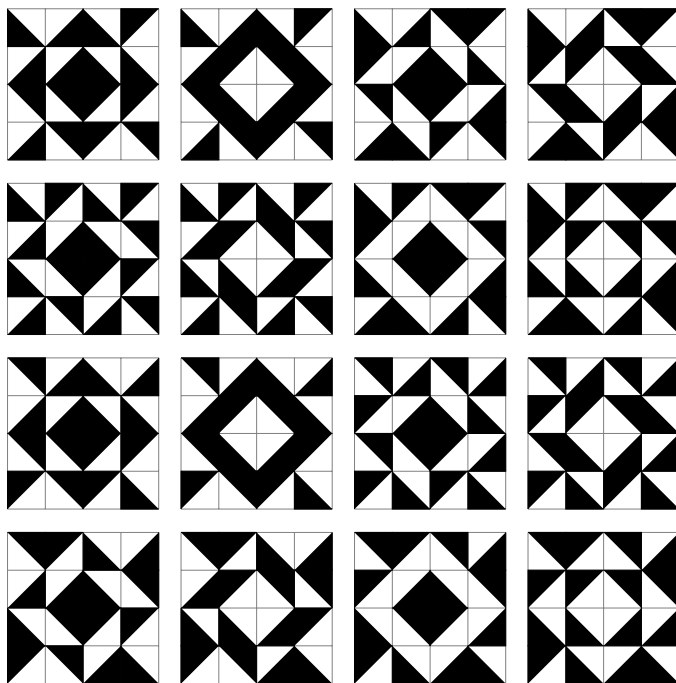
0000	0002	0020	0022
0200	0202	0220	0222
2000	2002	2020	2022
2200	2202	2220	2222



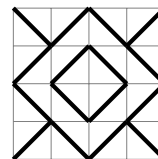
1111



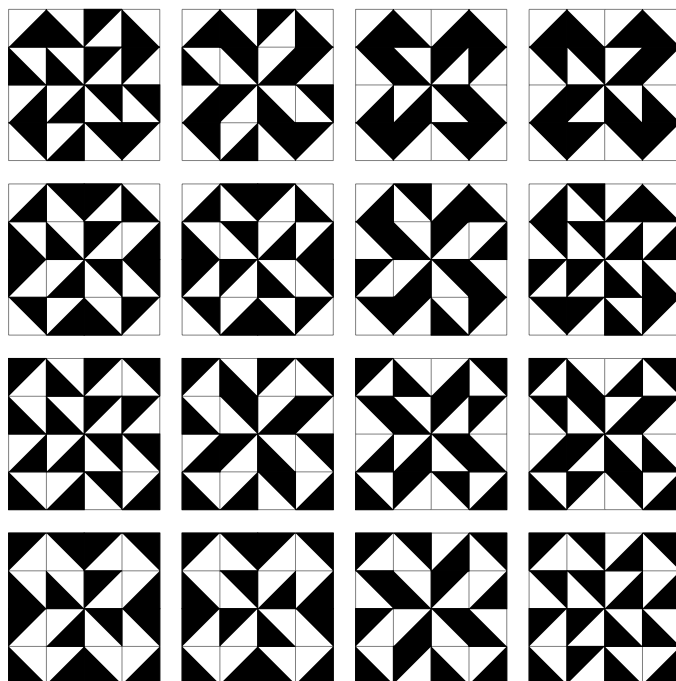
1111	1113	1131	1133
1311	1313	1331	1333
3111	3113	3131	3133
3311	3313	3331	3333



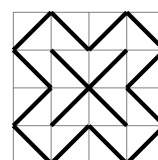
1000



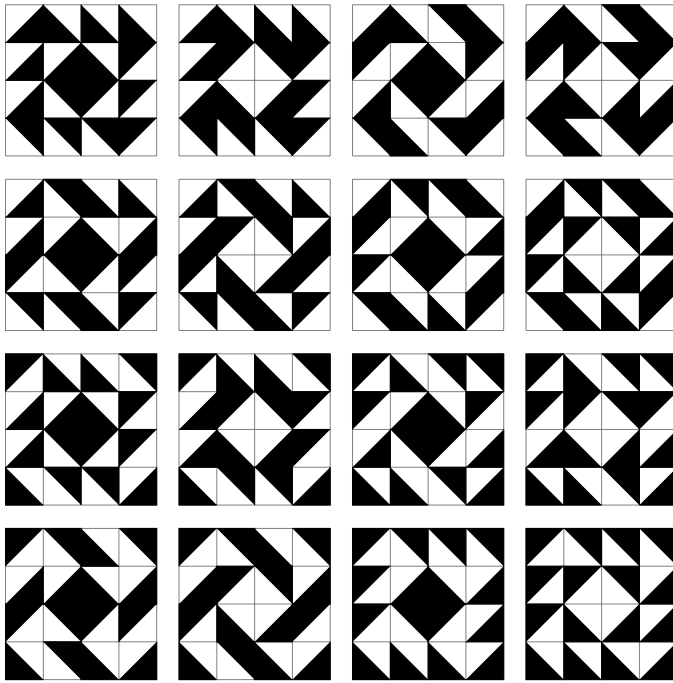
1000	1002	1020	1022
1200	1202	1220	1222
3000	3002	3020	3022
3200	3202	3220	3222



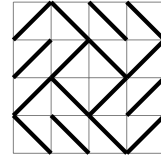
0111



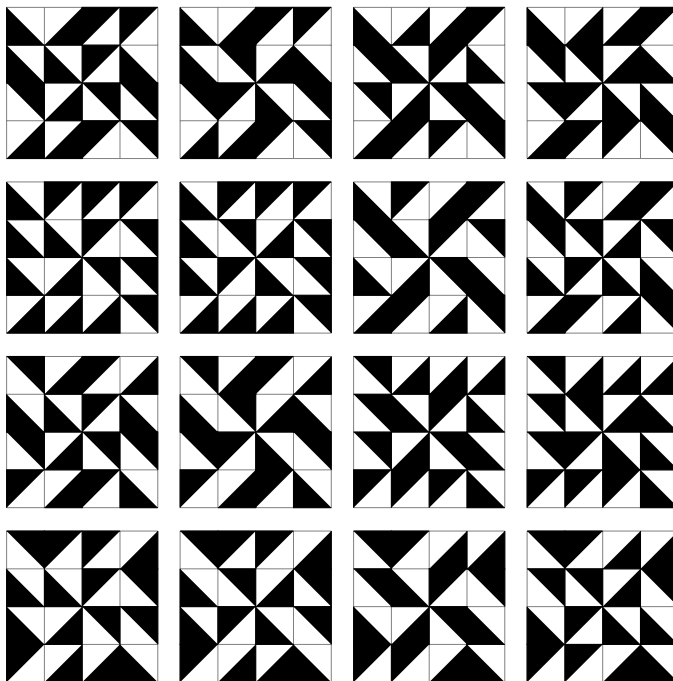
0111	0113	0131	0133
0311	0313	0331	0333
2111	2113	2131	2133
2311	2313	2331	2333



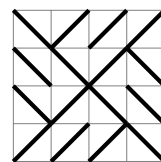
0100



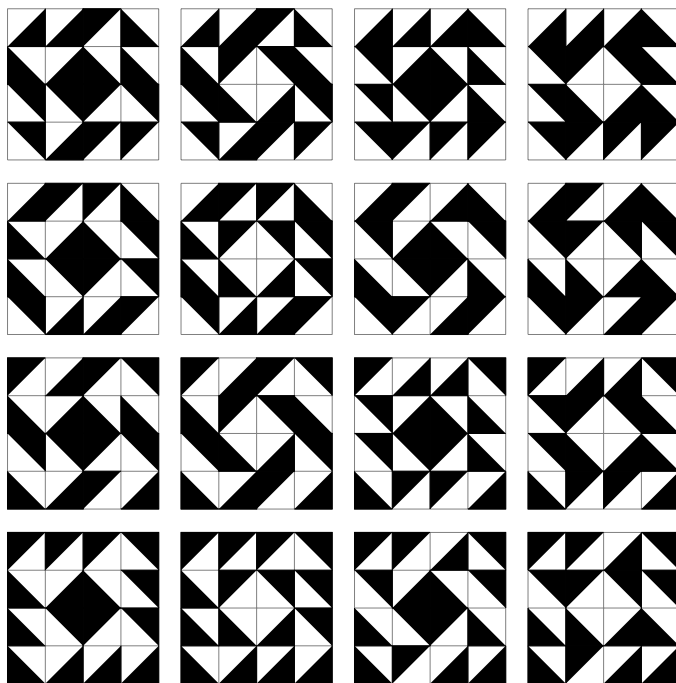
0100	0102	0120	0122
0300	0302	0320	0322
2100	2102	2120	2122
2300	2302	2320	2322



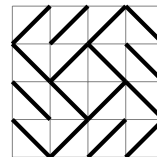
1011



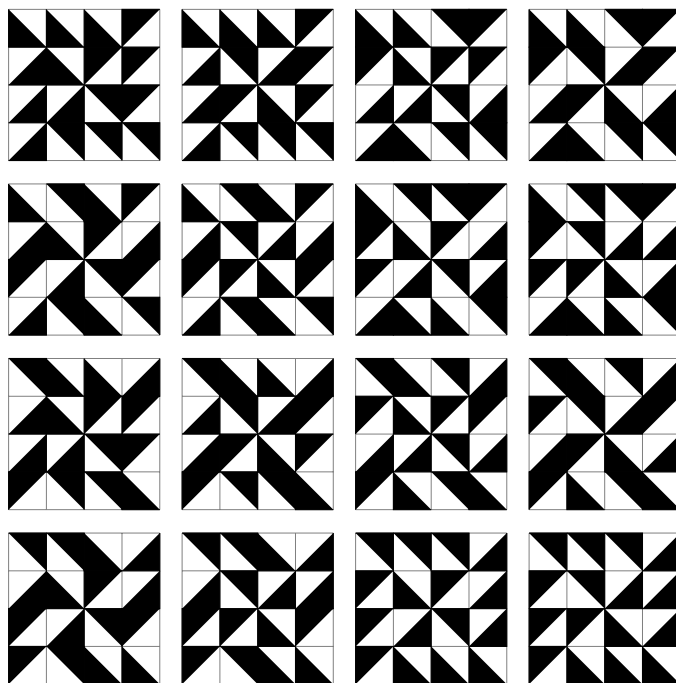
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1211	1213	1231	1233
3011	3013	3031	3033
3211	3213	3231	3233



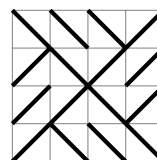
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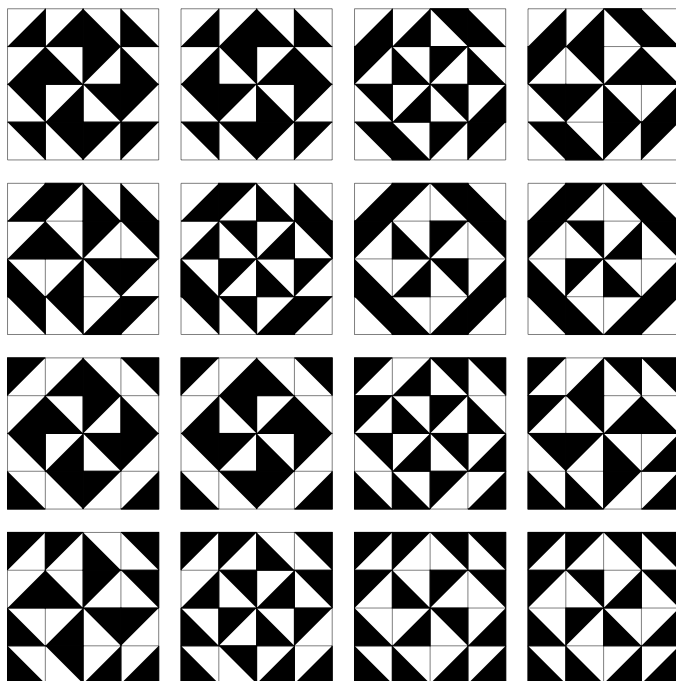
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0210	0212	0230	0232
2010	2012	2030	2032
2210	2212	2230	2232



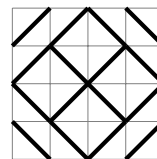
1101



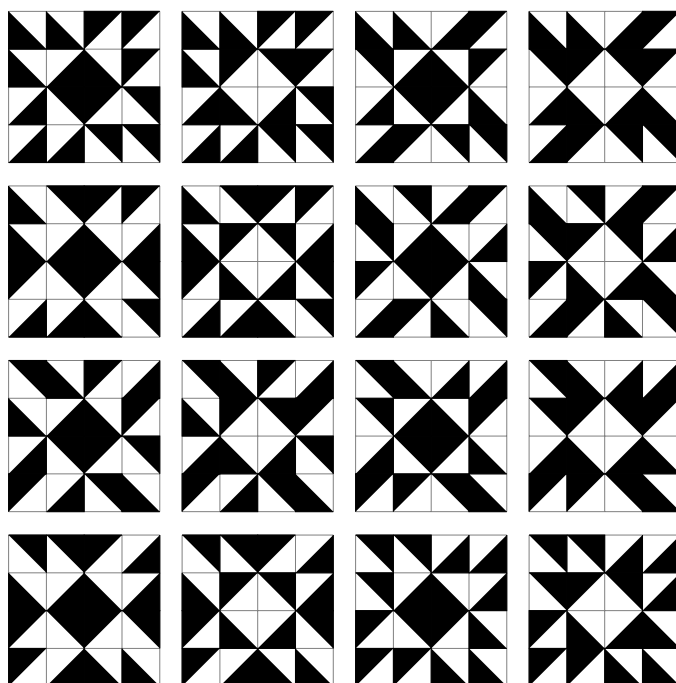
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1301	1303	1321	1323
3101	3103	3121	3123
3301	3303	3321	3323



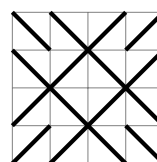
0001



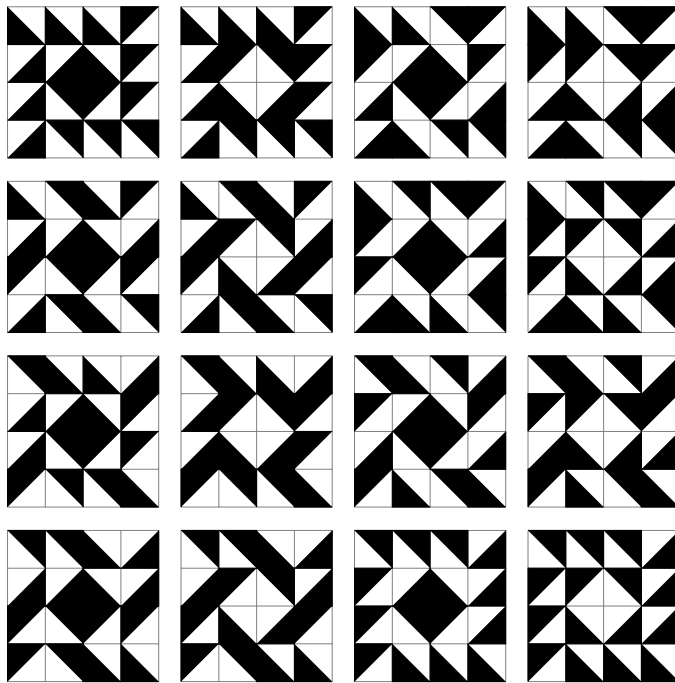
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0201	0203	0221	0223
2001	2003	2021	2023
2201	2203	2221	2223



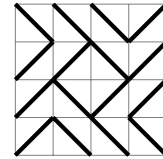
1110



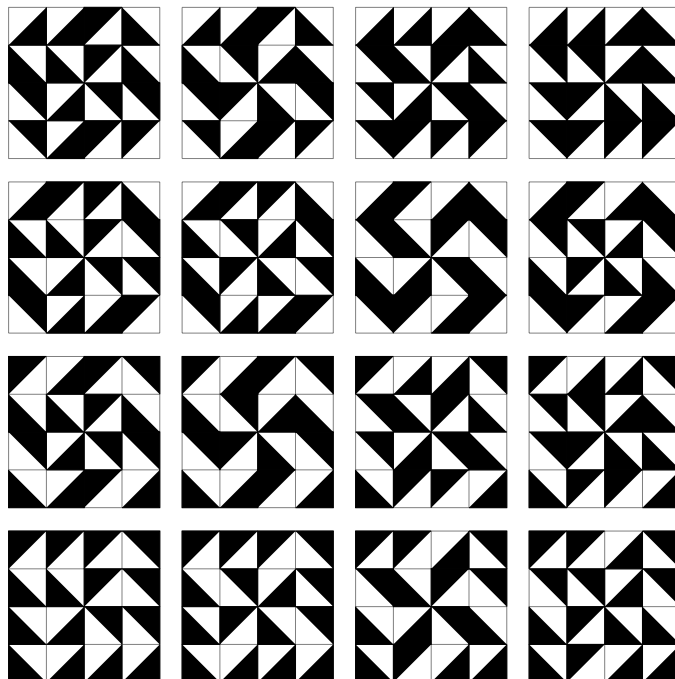
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1310	1312	1330	1332
3110	3112	3130	3132
3310	3312	3330	3332



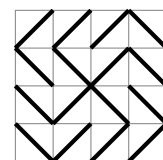
1100



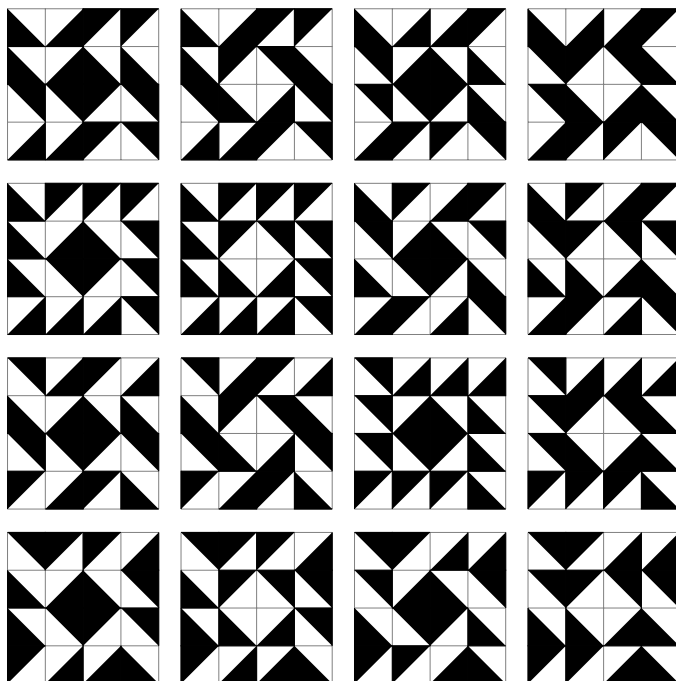
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3100	3102	3120	3122
3300	3302	3320	3322



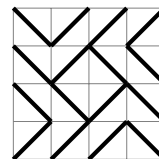
0011



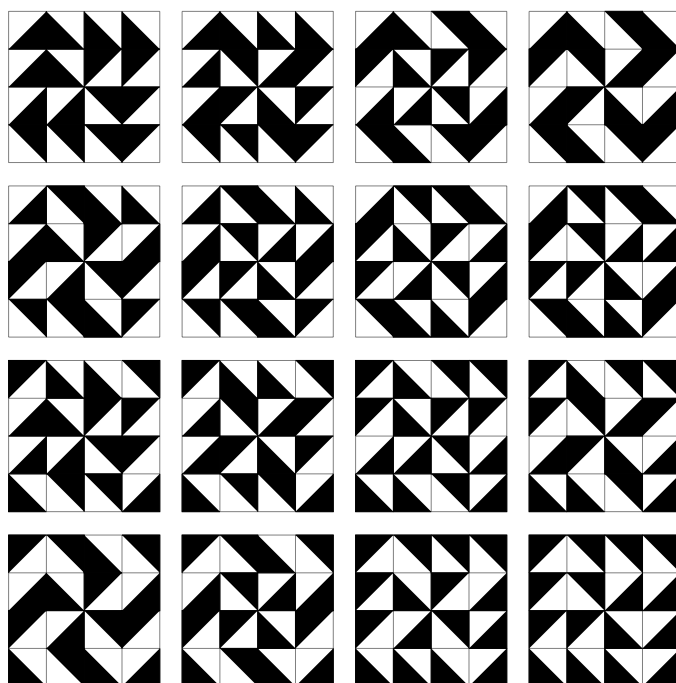
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2011	2013	2031	2033
2211	2213	2231	2233



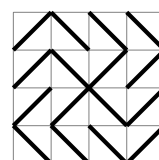
1010



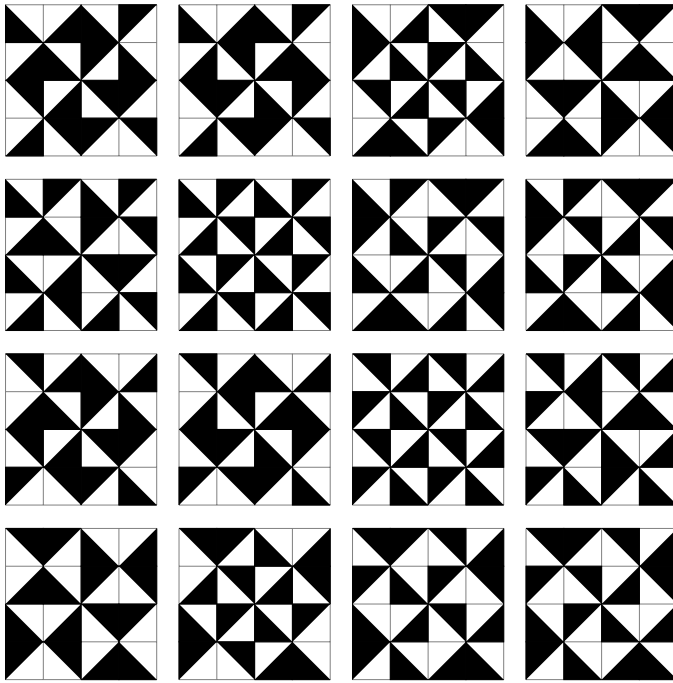
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3010	3012	3030	3032
3210	3212	3230	3232



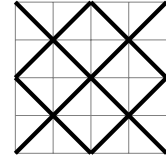
0101



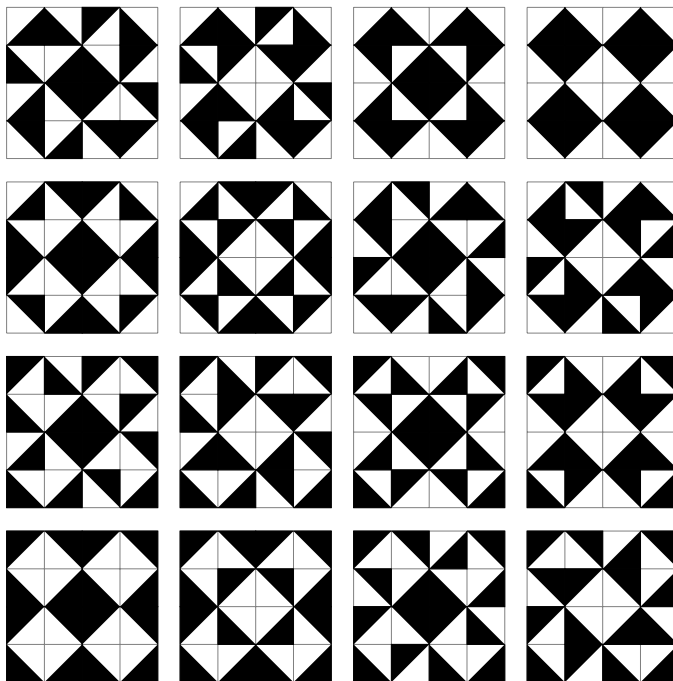
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2101	2103	2121	2123
2301	2303	2321	2323



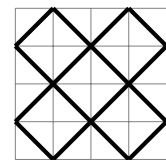
1001



1001	1003	1021	1023
1201	1203	1221	1223
3001	3003	3021	3023
3201	3203	3221	3223



0110

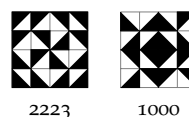
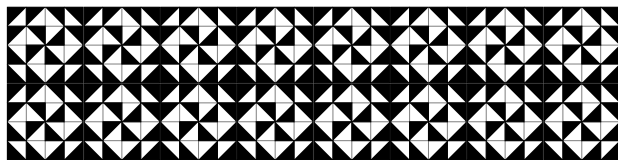


0110	0112	0130	0132
0310	0312	0330	0332
2110	2112	2130	2132
2310	2312	2330	2332

Friezes of Truchet patterns

Each 4x4 Truchet pattern can be treated like a tile and used in a larger pattern. A *frieze* is a horizontal strip of the same tile pattern repeated. Friezes of 4x4 Truchet pattern tiles with rotational symmetry can be quite striking, and have some interesting characteristics.

In frieze of more than one row of a primary tile reveals a secondary tile pattern that appears as another horizontal strip of 4x4 Truchet tile patterns nestled between the rows of primary tiles. Below, a frieze of 2223 tiles has a secondary pattern of 1000 tiles.

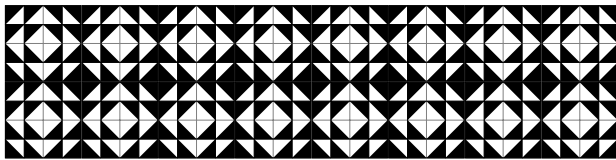


Frieze patterns made from tiles of a particular family will have secondary tiles that also have rotational symmetry and that are from the same family. For example, frieze patterns from the family 0001 will have secondary patterns from the family 1000.

You can compute the secondary frieze tile pattern of a given tile by reversing the digits of the tile label and adding 2 to each digit, modulo 4. This is because the label of the secondary frieze tile pattern comes from the top right corner of the primary tile pattern.

p	q	c	e
c	p	p	q
b	d	d	c
a	c	b	a

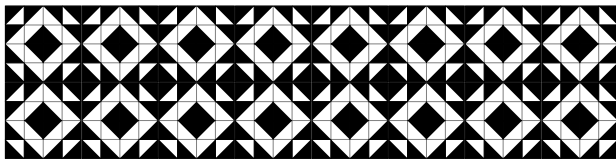
Frieze patterns for family 0000 (secondary, 0000)



2222



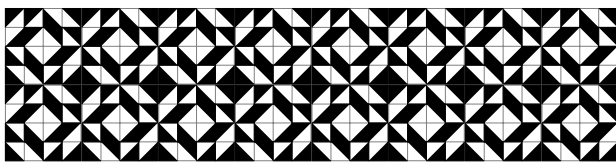
0000



2220



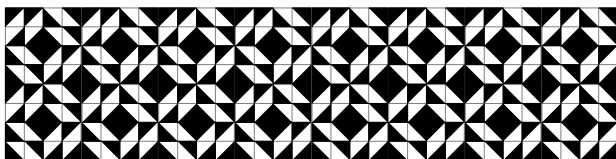
2000



2202



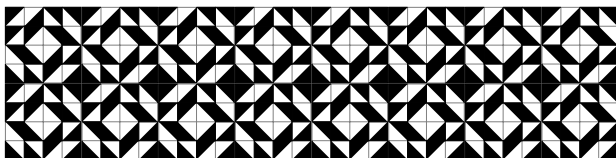
0200



2200



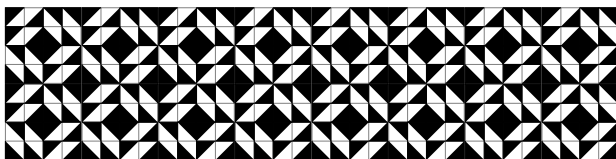
2200



2022



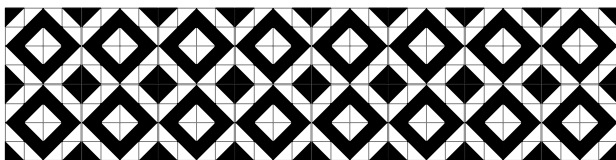
0020



2020



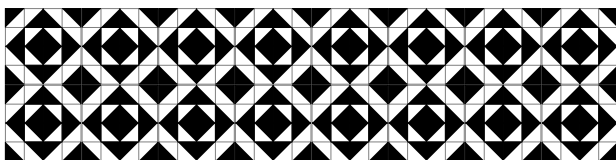
2020



2002



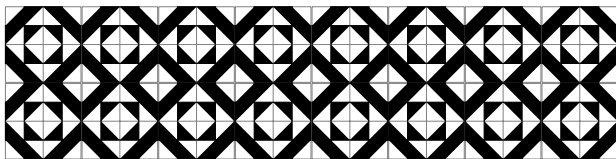
0220



2000



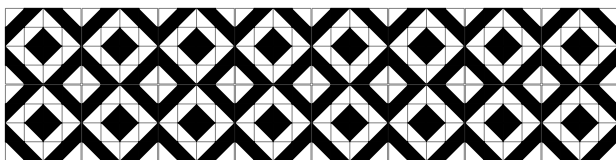
2220



0222



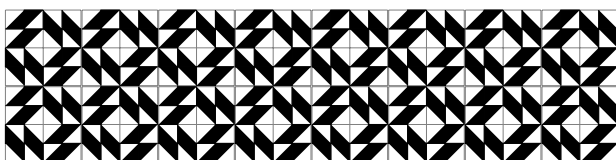
0002



0220



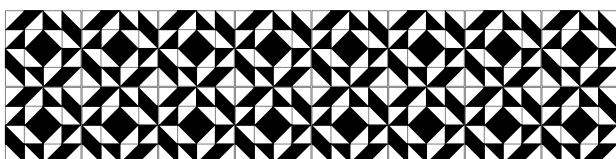
2002



0202



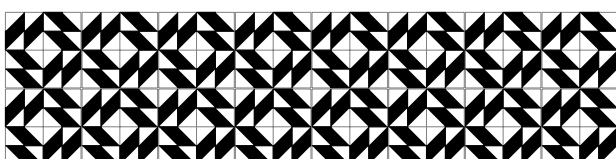
0202



0200



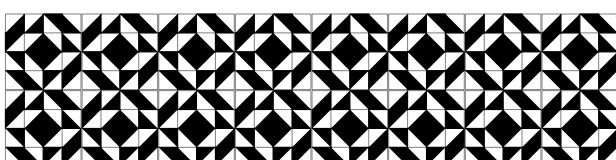
2202



0022



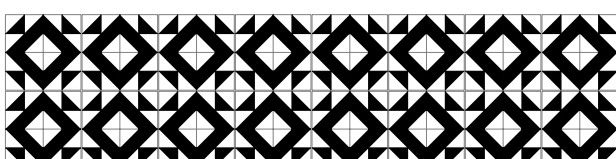
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0020



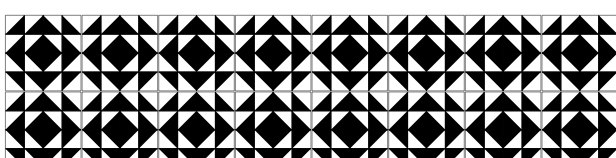
2022



0002



0222

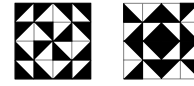
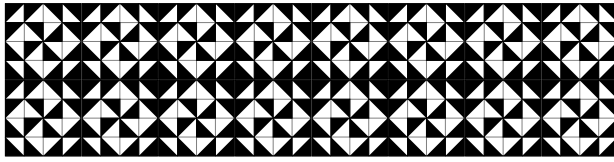


0000



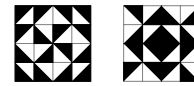
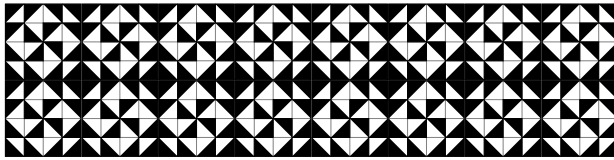
2222

Frieze patterns for family 0001 (secondary, 1000)



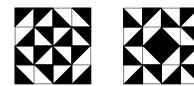
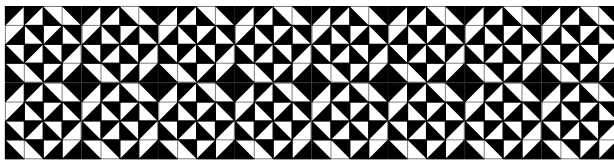
2223

1000



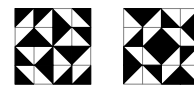
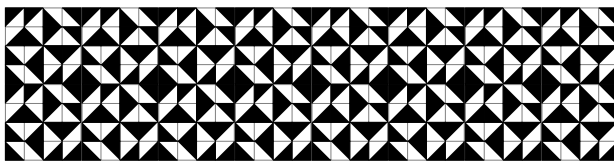
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3000



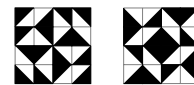
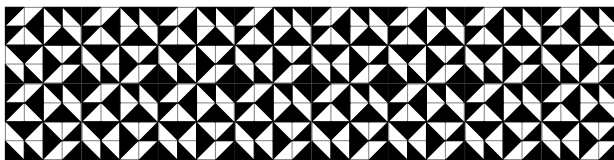
2203

1200



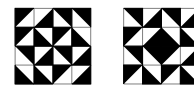
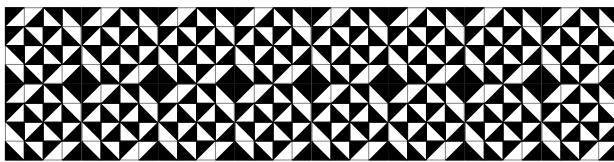
2201

3200



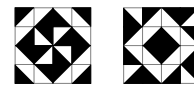
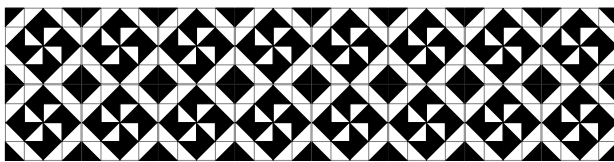
2023

1020



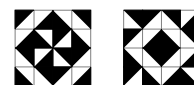
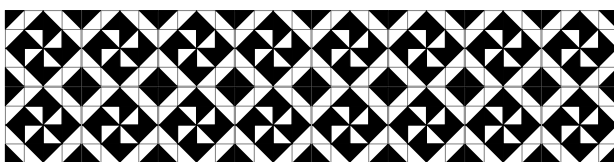
2021

3020



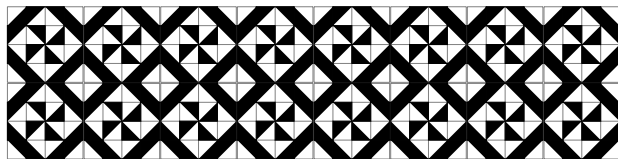
2003

1220



2001

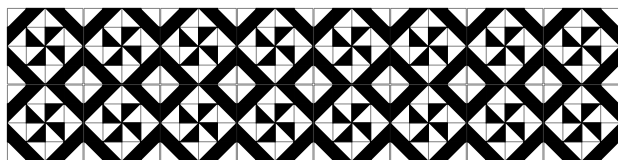
3220



0223



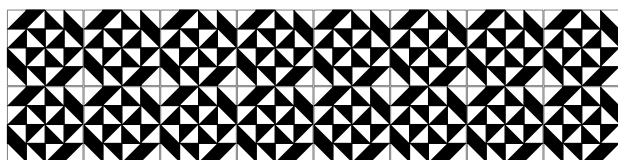
1002



0221



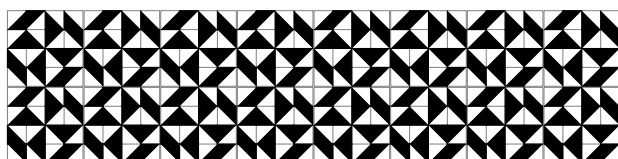
3002



0203



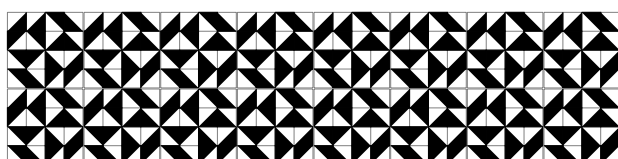
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0201



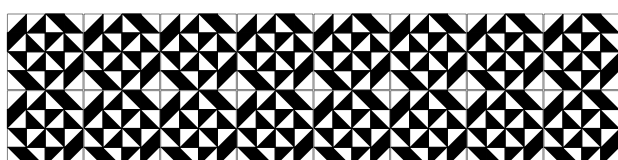
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0023



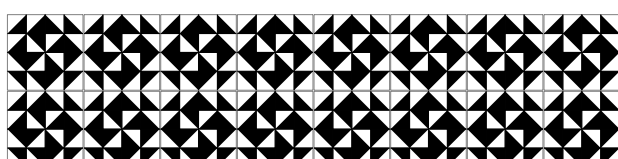
1022



0021



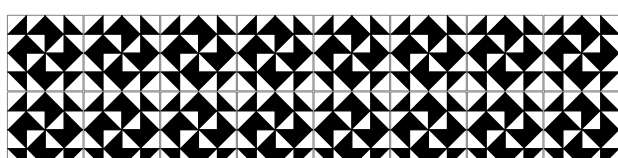
3022



0003



1222

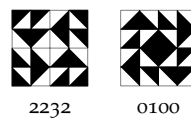
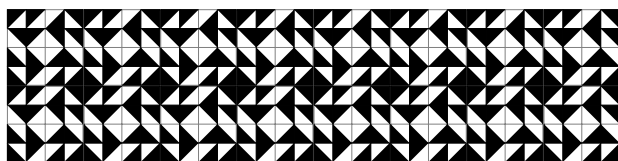


0001



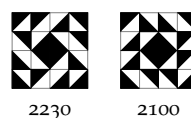
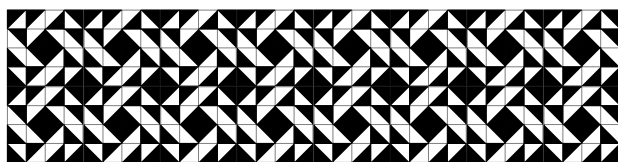
3222

Frieze patterns for family 0010 (secondary, 0100)



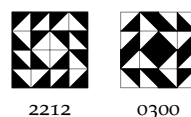
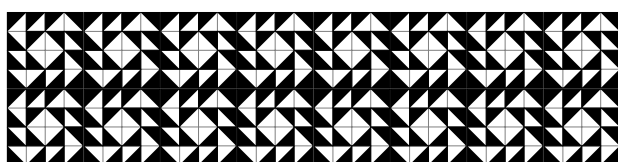
2232

0100



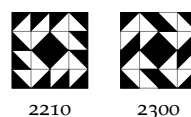
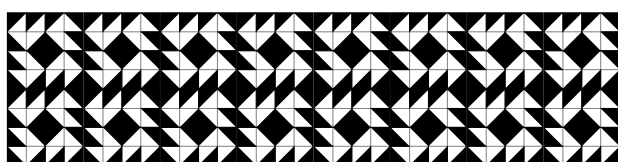
2230

2100



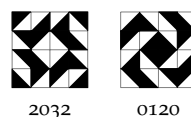
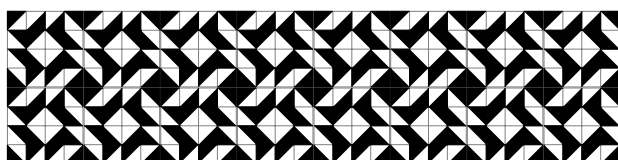
2212

0300



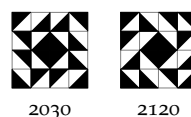
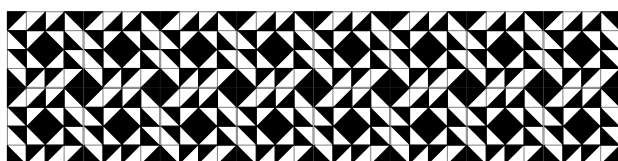
2210

2300



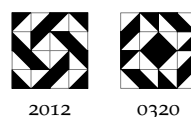
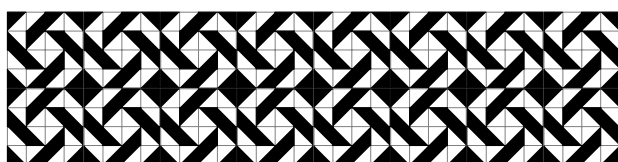
2032

0120



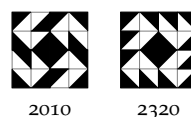
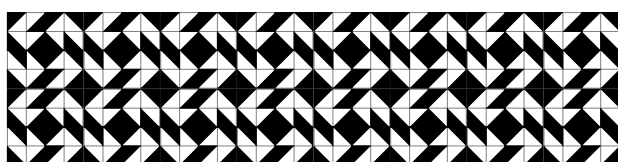
2030

2120



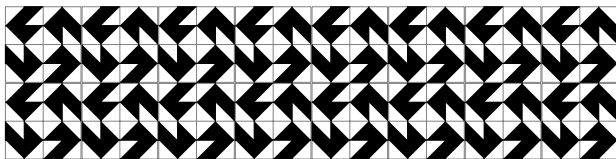
2012

0320



2010

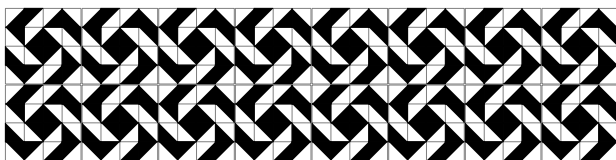
2320



0232



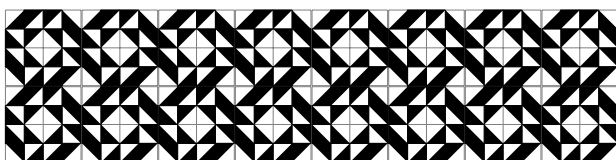
0102



0230



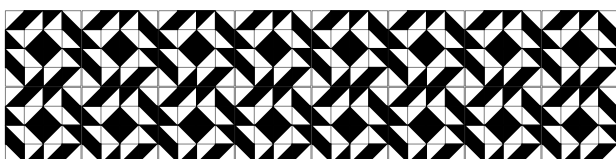
2102



0212



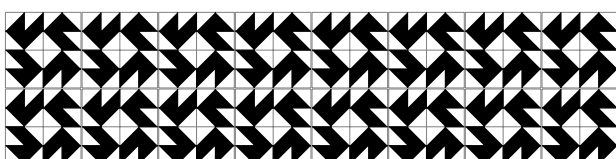
0302



0210



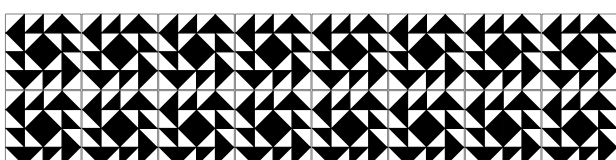
2302



0032



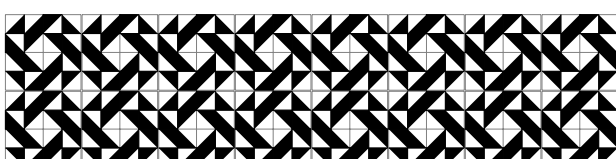
0122



0030



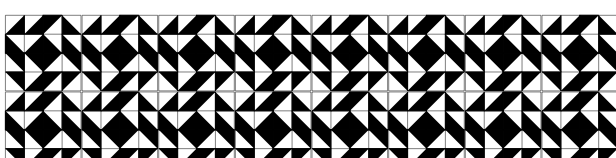
2122



0012



0322

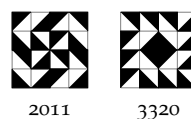
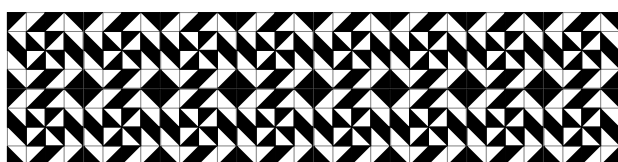
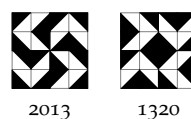
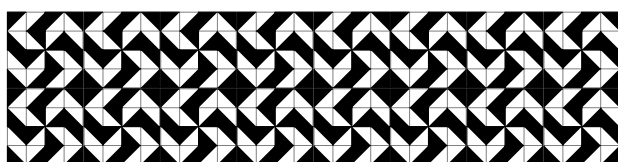
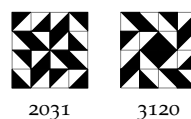
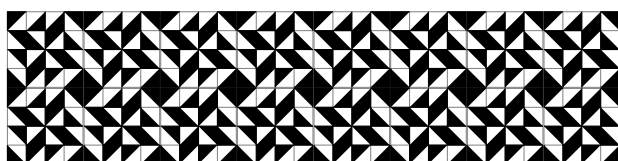
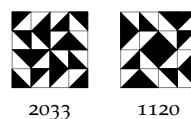
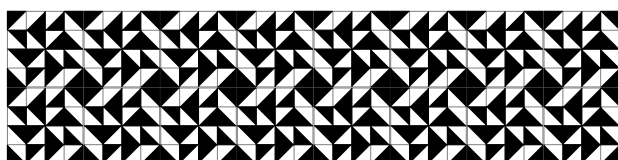
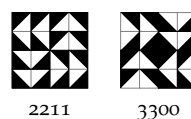
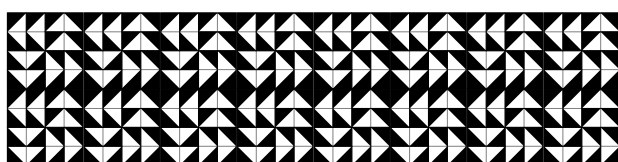
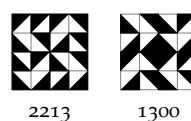
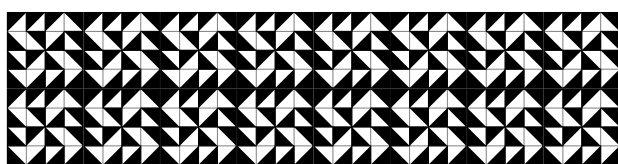
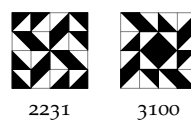
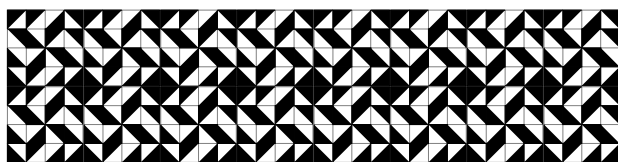
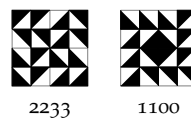
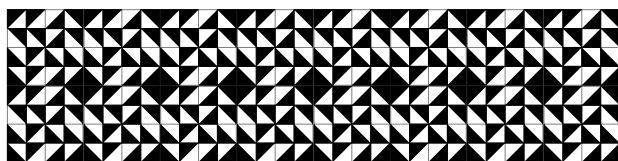


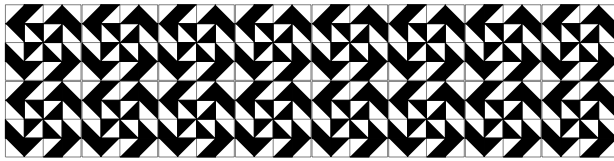
0010



2322

Frieze patterns for family 0011 (secondary, 1100)

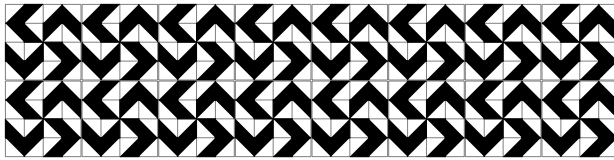




0233



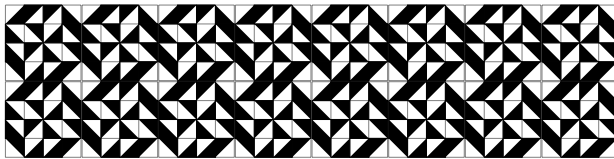
1102



0231



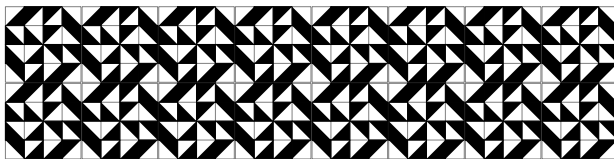
3102



0213



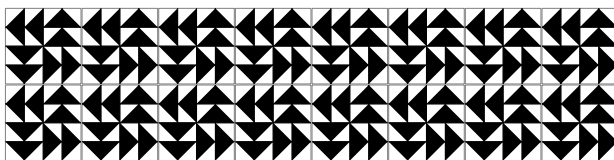
1302



0211



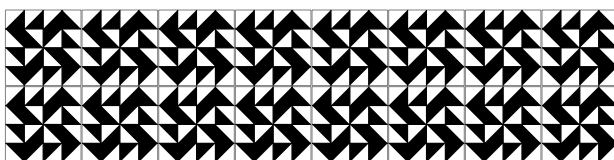
3302



0033



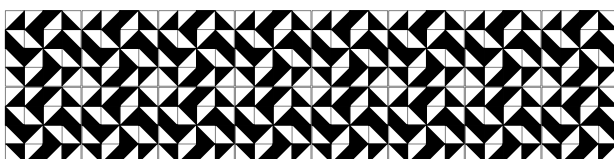
1122



0031



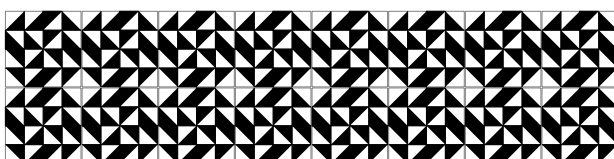
3122



0013



1322

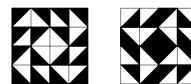
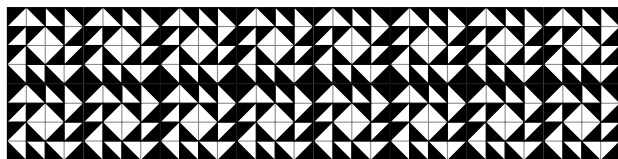


0011



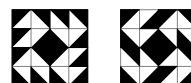
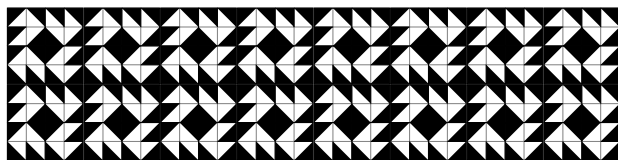
3322

Frieze patterns for family 0100 (secondary, 0010)



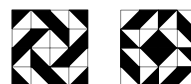
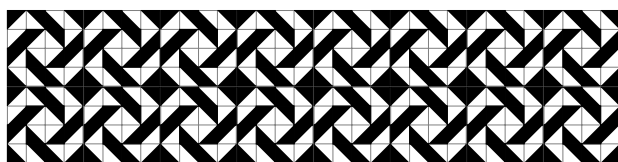
2322

0010



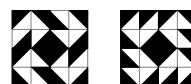
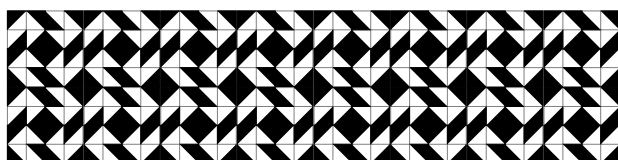
2320

2010



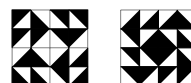
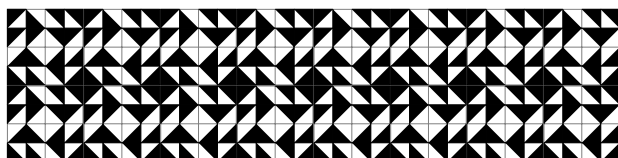
2302

0210



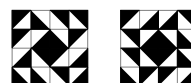
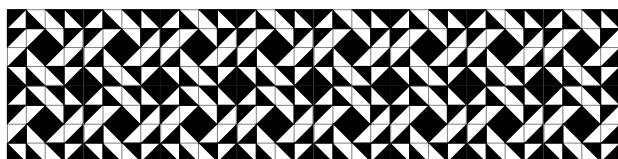
2300

2210



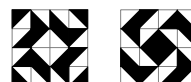
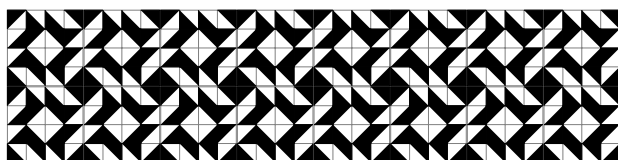
2122

0030



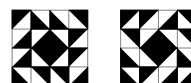
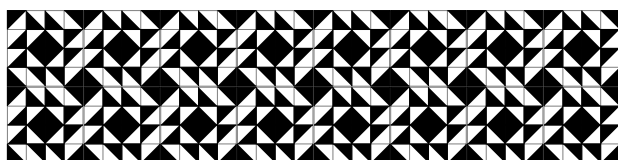
2120

2030



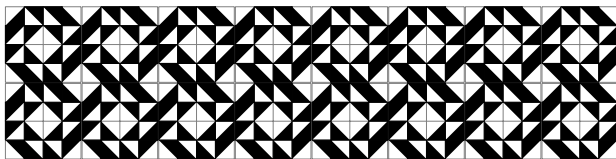
2102

0230



2100

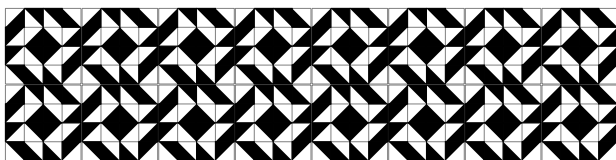
2230



0322



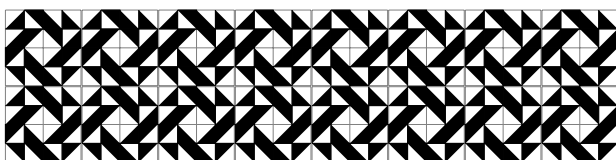
0012



0320



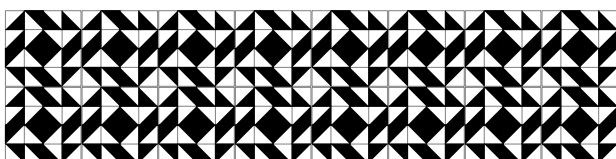
2012



0302



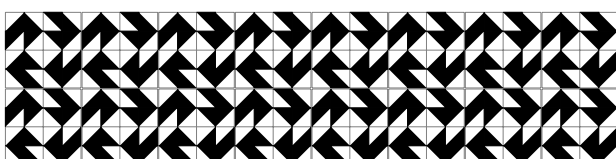
0212



0300



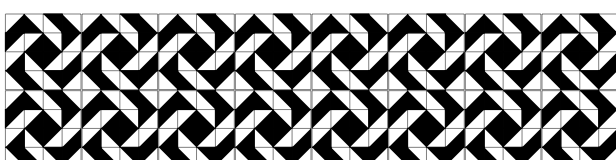
2212



0122



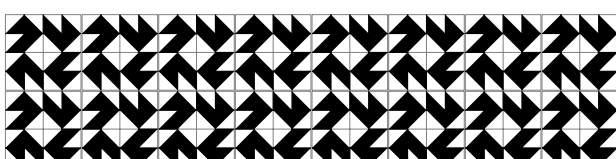
0032



0120



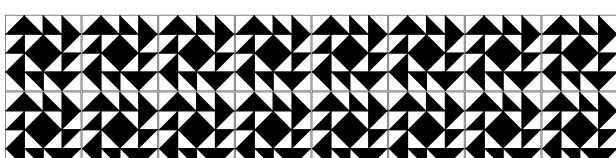
2032



0102



0232

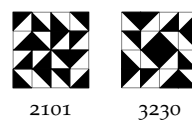
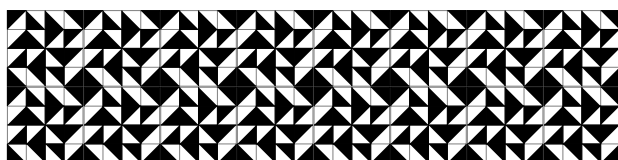
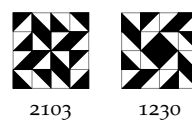
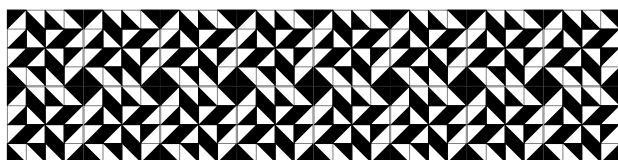
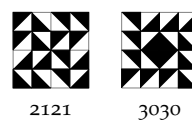
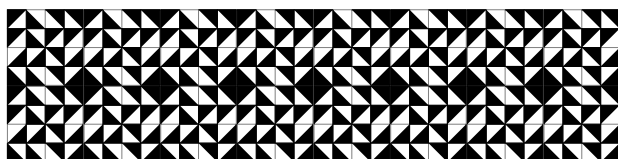
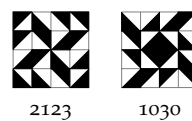
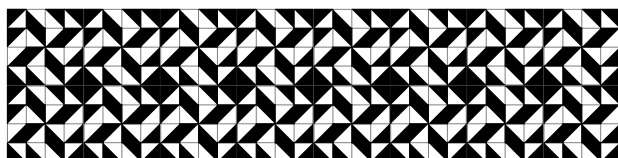
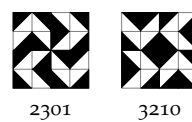
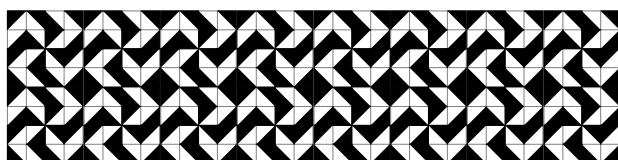
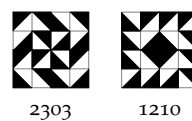
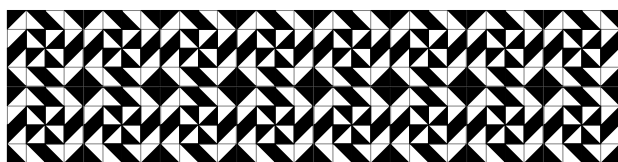
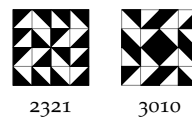
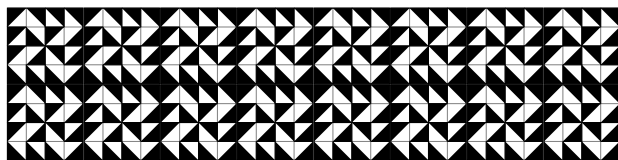
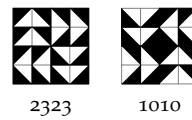
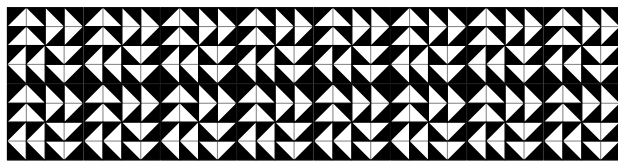


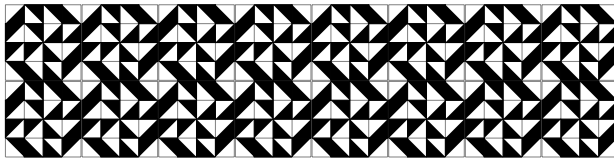
0100



2232

Frieze patterns for family 0101 (secondary, 1010)

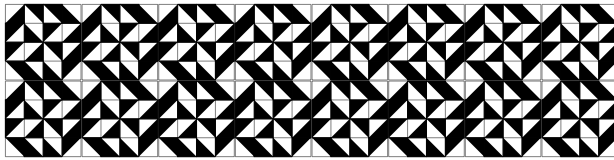




0323



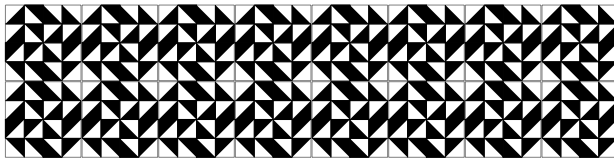
1012



0321



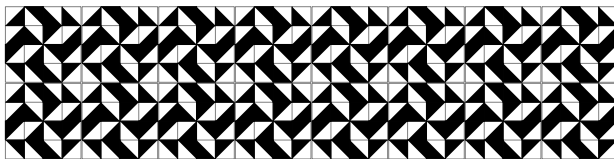
3012



0303



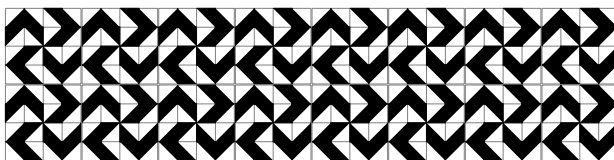
1212



0301



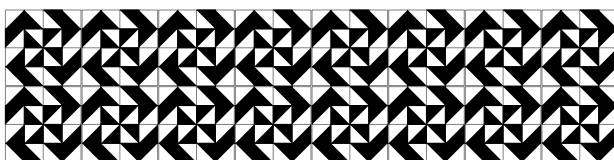
3212



0123



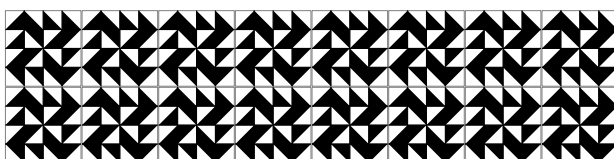
1032



0121



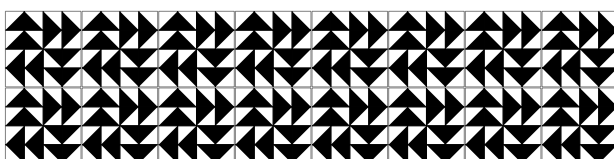
3032



0103



1232

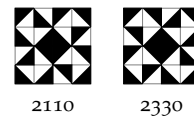
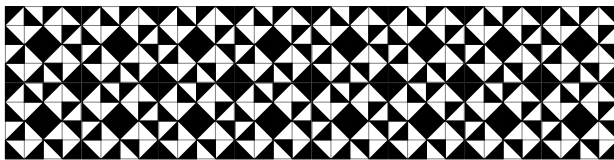
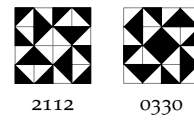
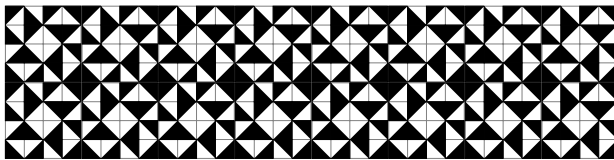
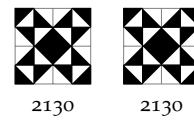
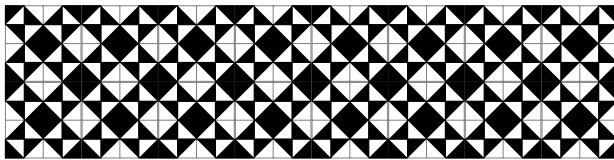
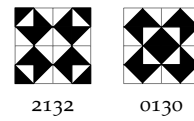
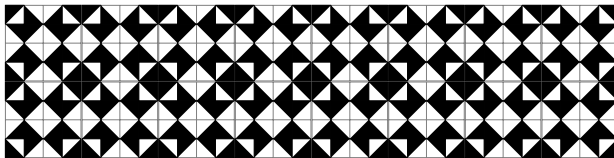
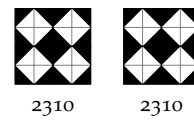
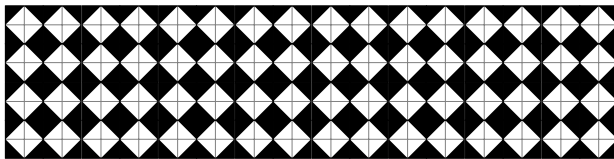
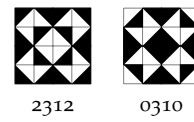
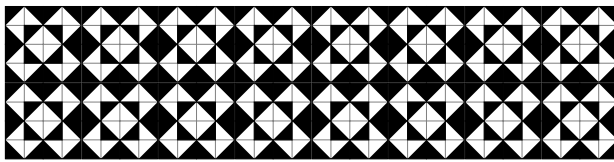
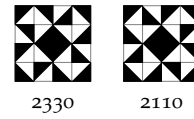
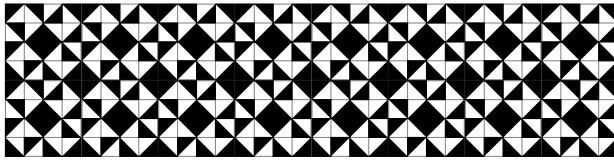
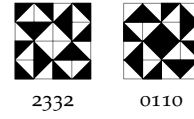
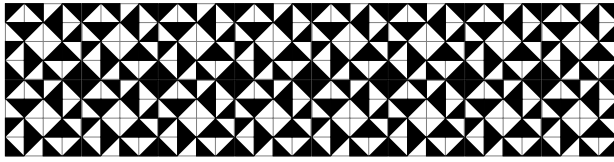


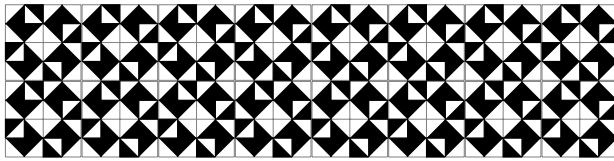
0101



3232

Frieze patterns for family 0110 (secondary, 0110)

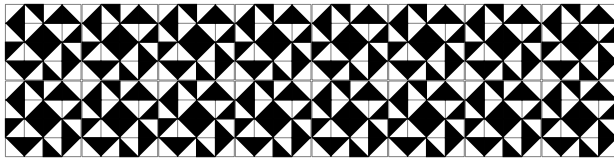




0332



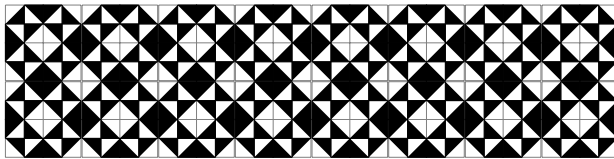
0112



0330



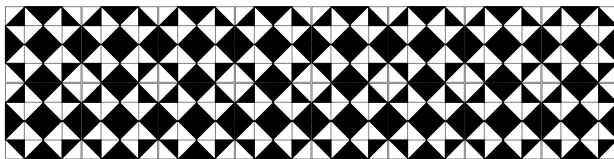
2112



0312



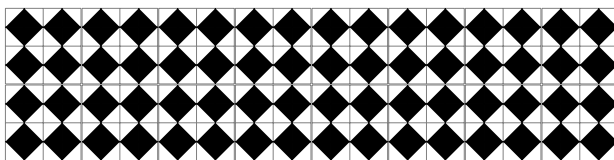
0312



0310



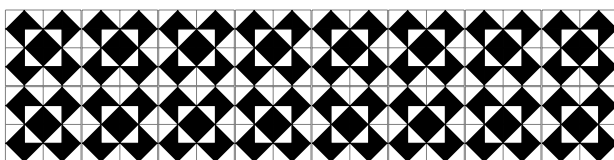
2312



0132



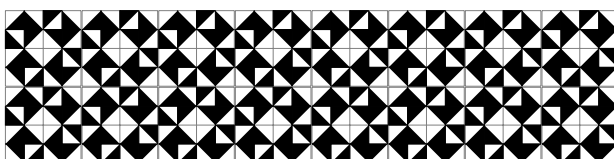
0132



0130



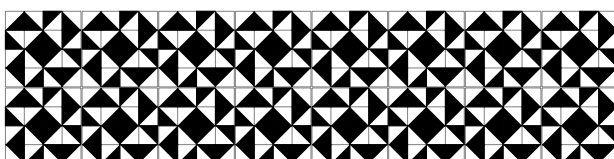
2132



0112



0332

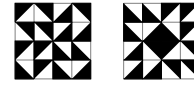
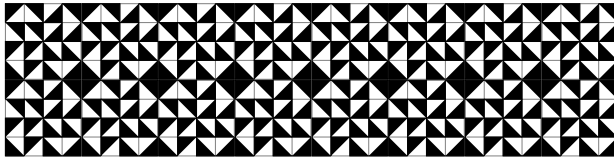


0110



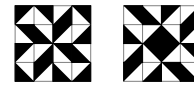
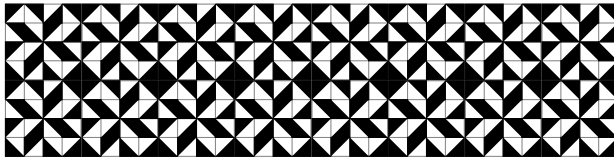
2332

Frieze patterns for family 0111 (secondary, 1110)



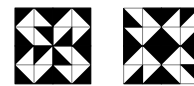
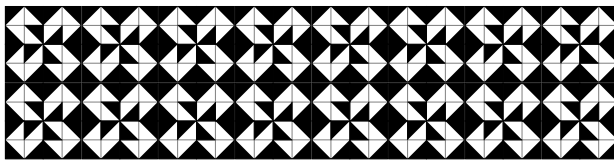
2333

1110



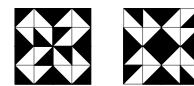
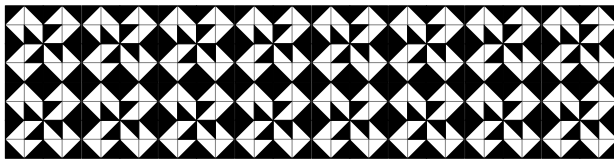
2331

3110



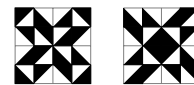
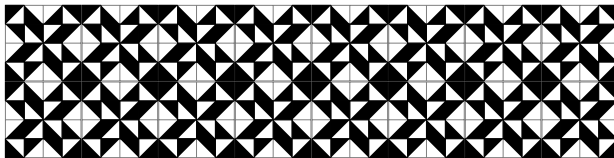
2313

1310



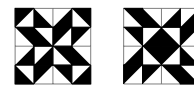
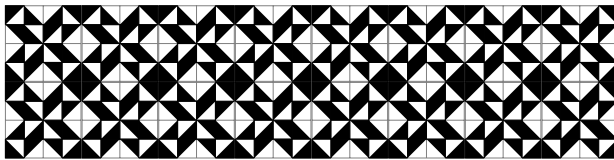
2311

3310



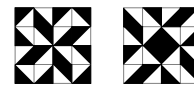
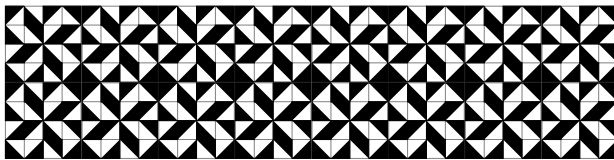
2133

1130



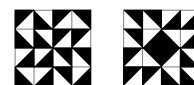
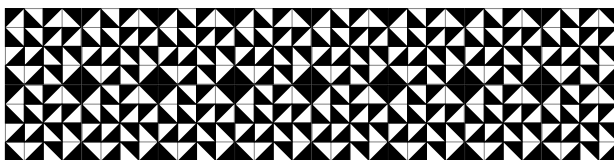
2131

3130



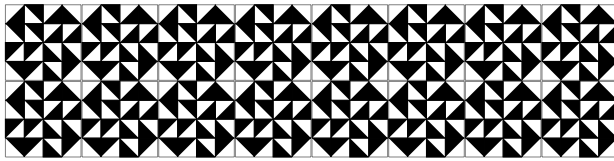
2113

1330



2111

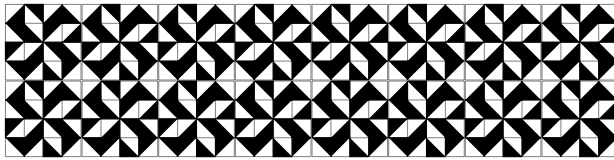
3330



0333



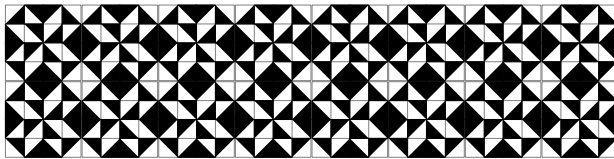
1112



0331



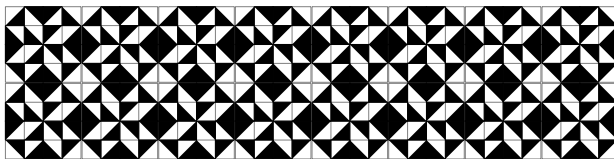
3112



0313



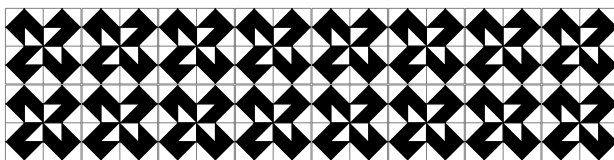
1312



0311



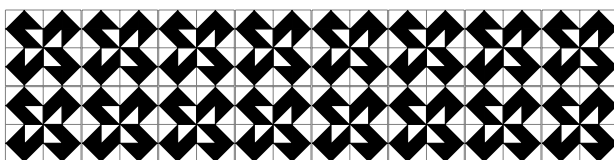
3312



0133



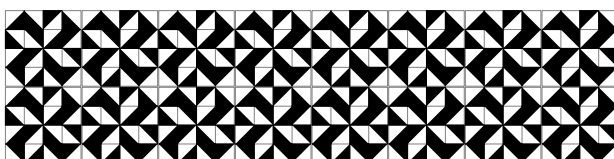
1132



0131



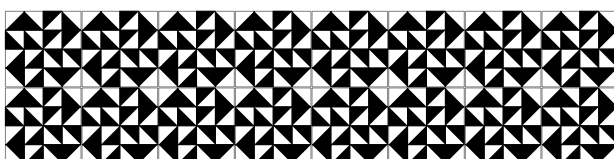
3132



0113



1332

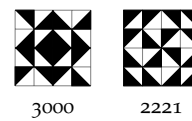
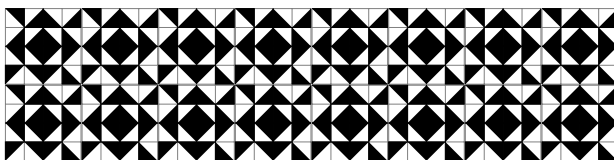
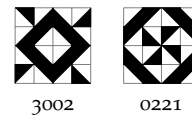
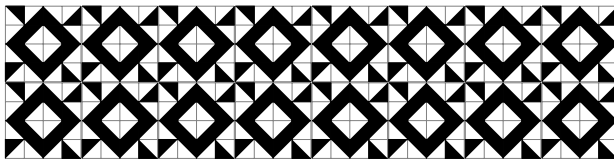
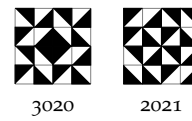
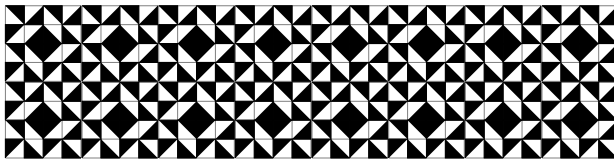
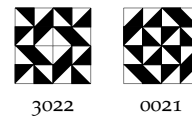
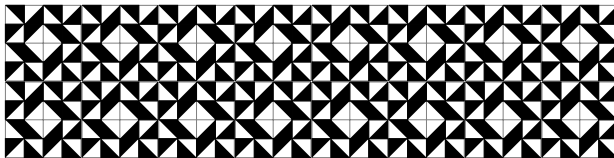
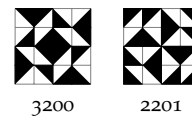
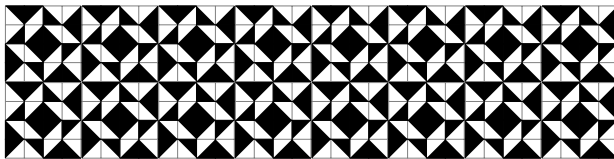
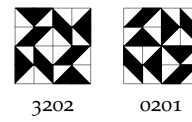
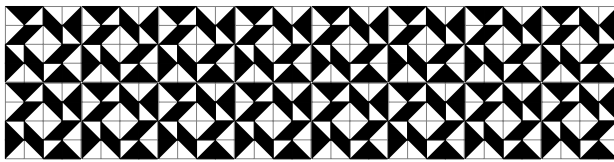
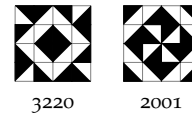
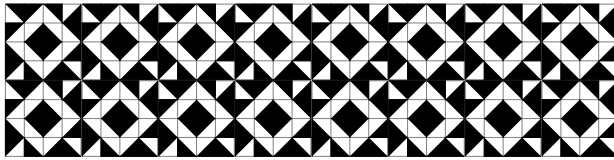
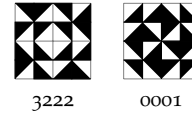
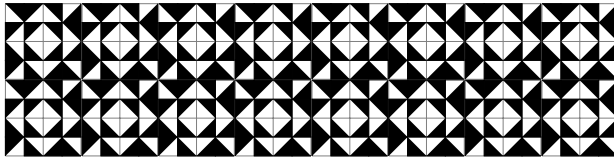


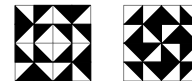
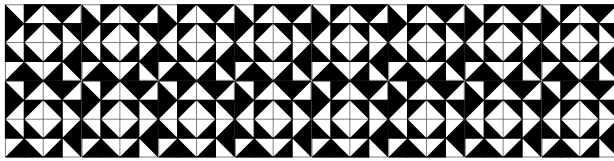
0111



3332

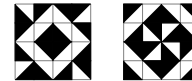
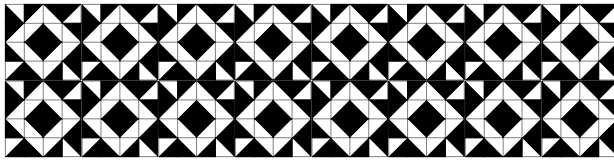
Frieze patterns for family 1000 (secondary, 0001)





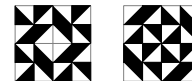
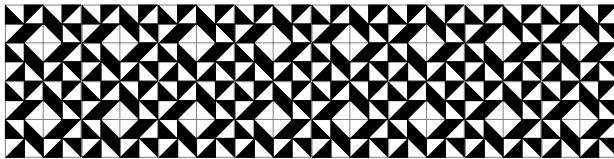
1222

0003



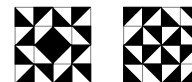
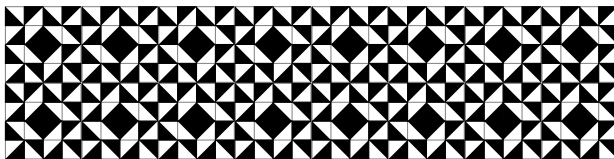
1220

2003



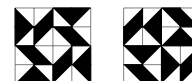
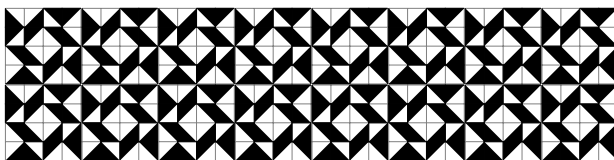
1202

0203



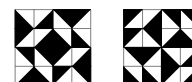
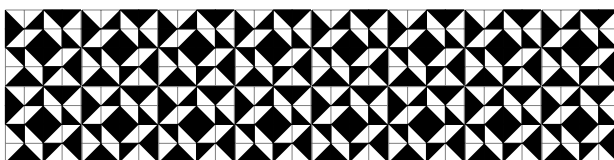
1200

2203



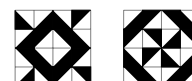
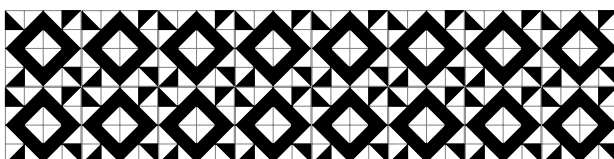
1022

0023



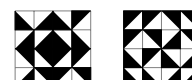
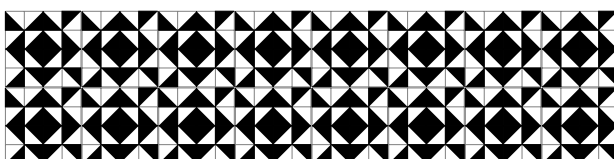
1020

2023



1002

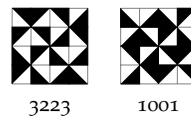
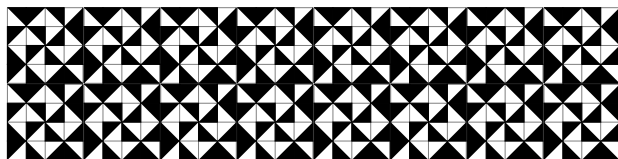
0223



1000

2223

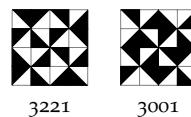
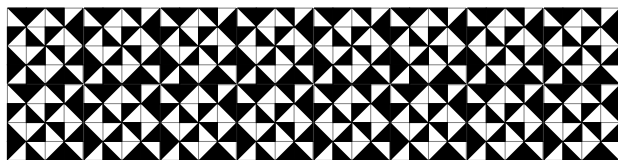
Frieze patterns for family 1001 (secondary, 1001)



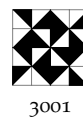
3223



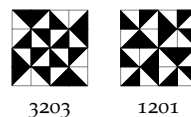
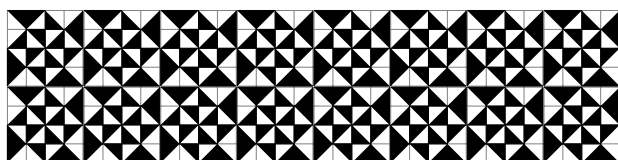
1001



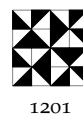
3221



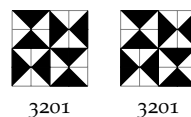
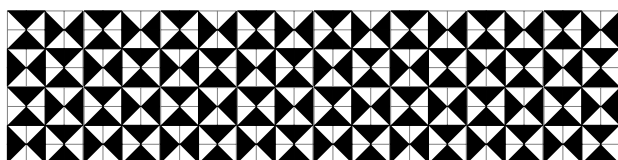
3001



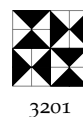
3203



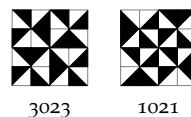
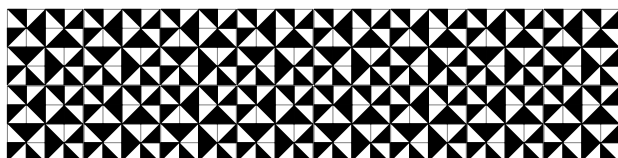
1201



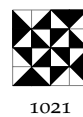
3201



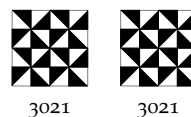
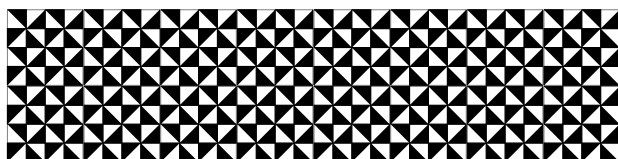
3201



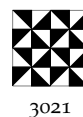
3023



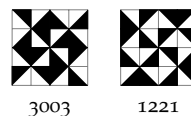
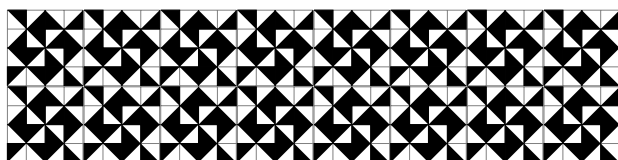
1021



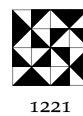
3021



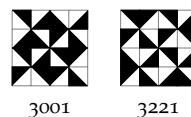
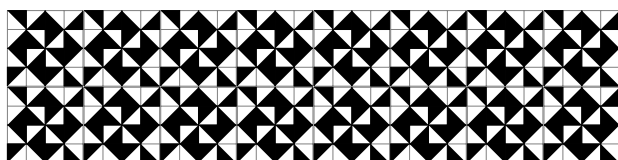
3021



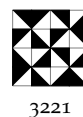
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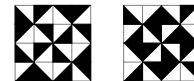
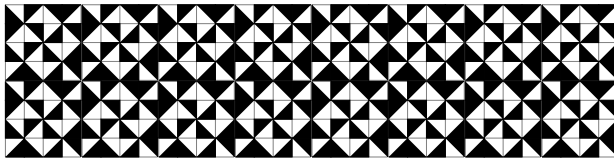
1221



3001

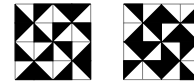
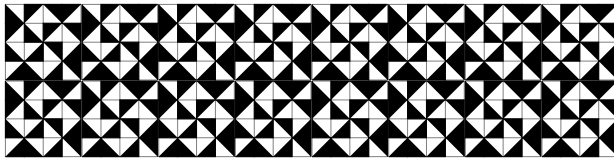


3221



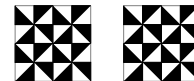
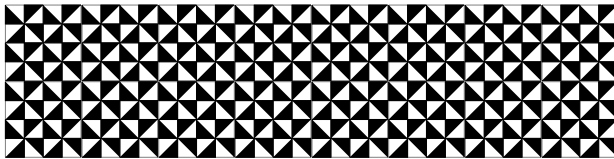
1223

1003



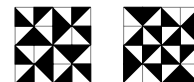
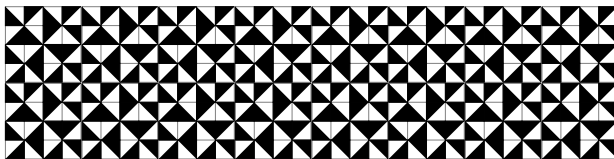
1221

3003



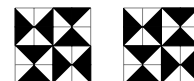
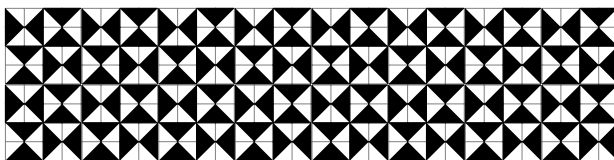
1203

1203



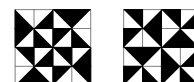
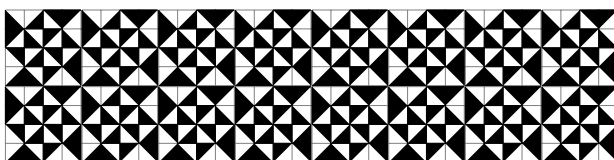
1201

3203



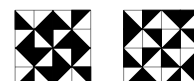
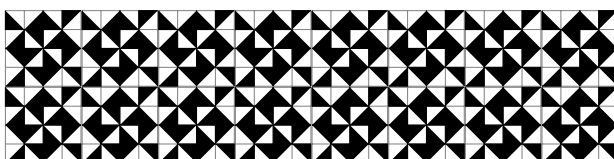
1023

1023



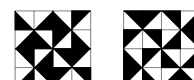
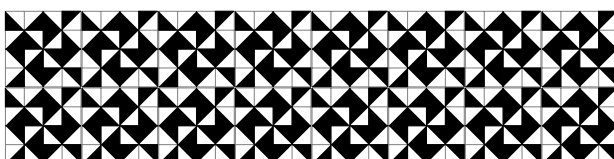
1021

3023



1003

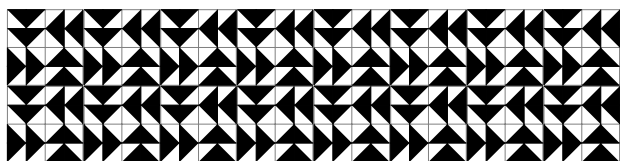
1223



1001

3223

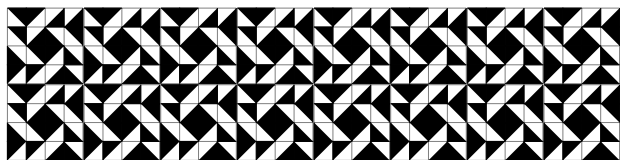
Frieze patterns for family 1010 (secondary, 0101)



3232



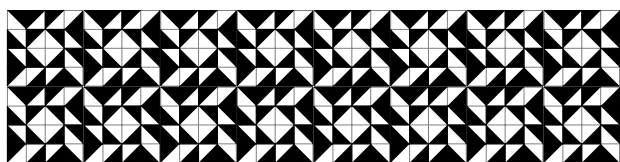
0101



3230



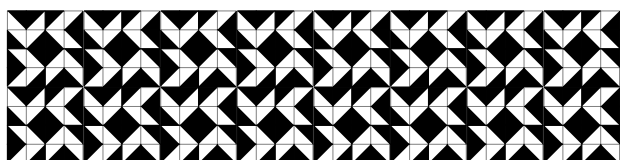
2101



3212



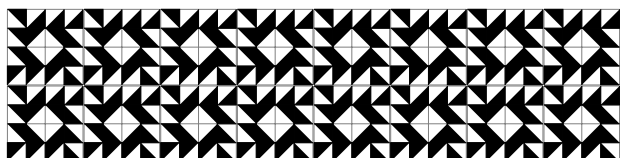
0301



3210



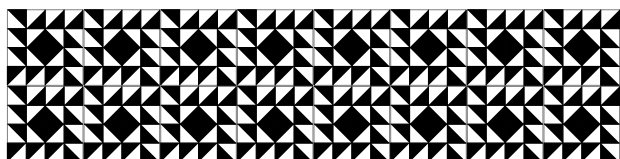
2301



3032



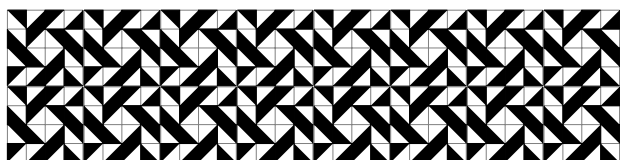
0121



3030



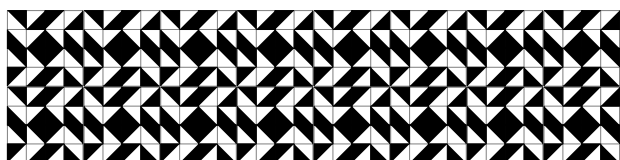
2121



3012



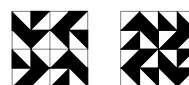
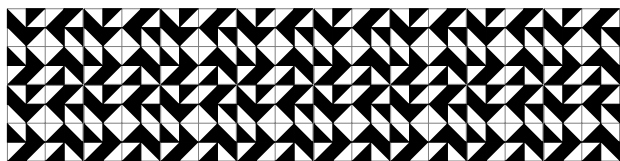
0321



3010

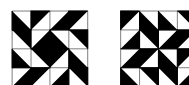
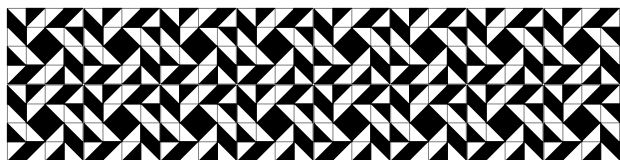


2321



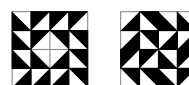
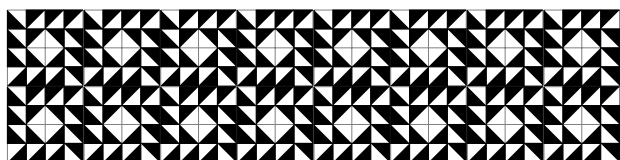
1232

0103



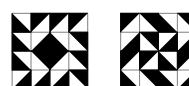
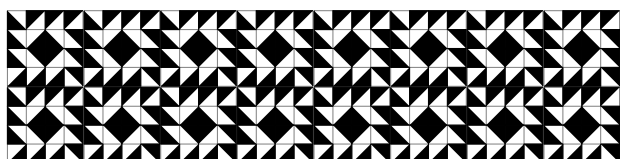
1230

2103



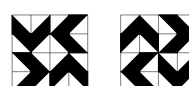
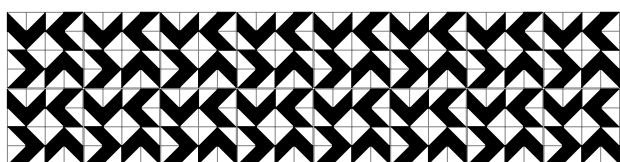
1212

0303



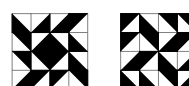
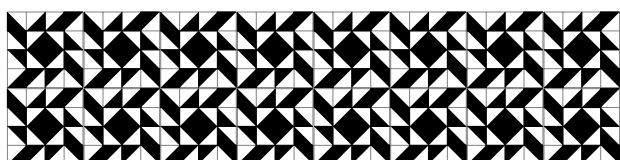
1210

2303



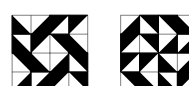
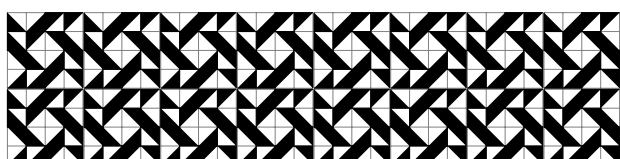
1032

0123



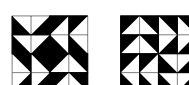
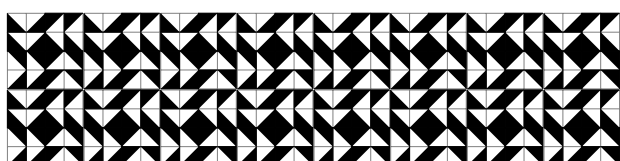
1030

2123



1012

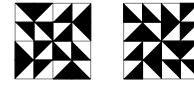
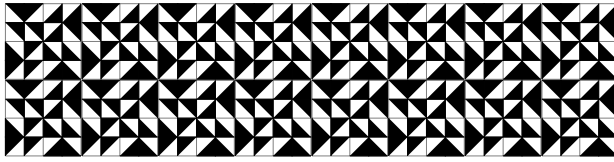
0323



1010

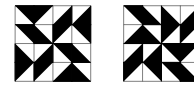
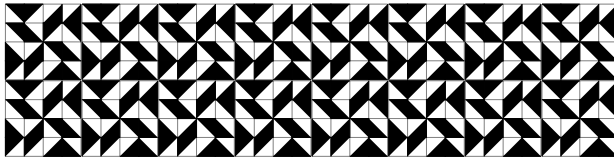
2323

Frieze patterns for family 1011 (secondary, 1101)



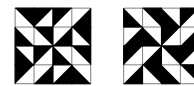
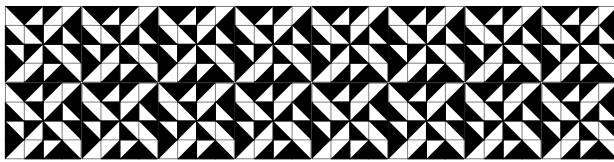
3233

1101



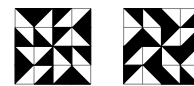
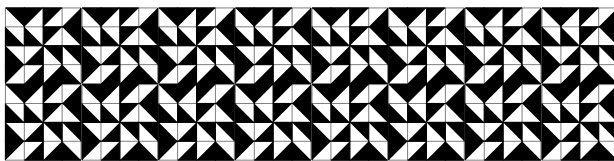
3231

3101



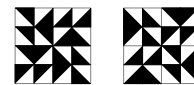
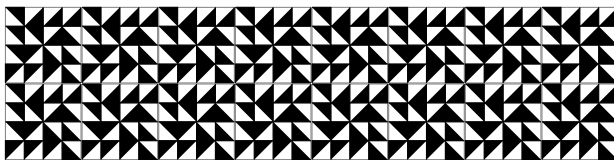
3213

1301



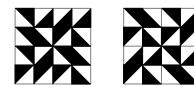
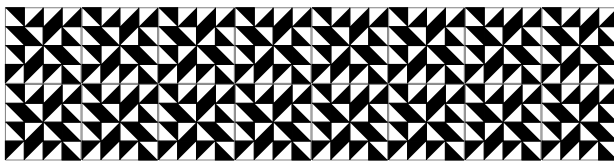
3211

3301



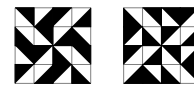
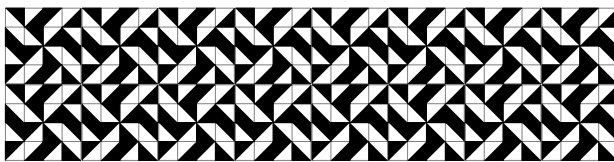
3033

1121



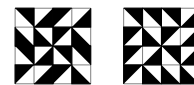
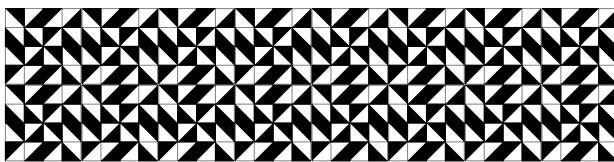
3031

3121



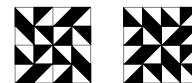
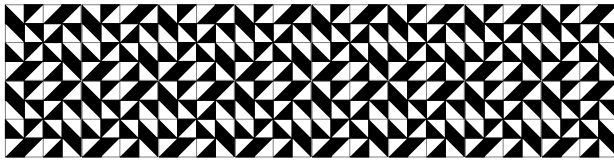
3013

1321



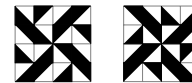
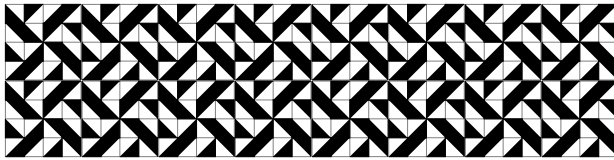
3011

3321



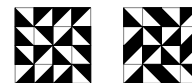
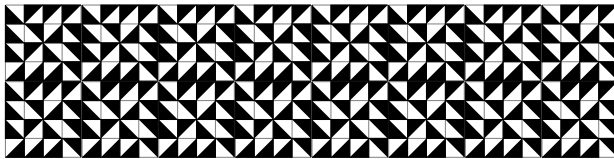
1233

1103



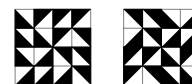
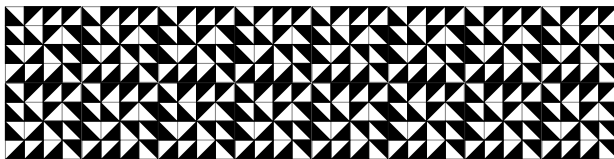
1231

3103



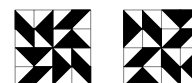
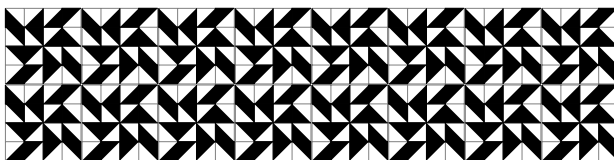
1213

1303



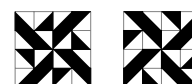
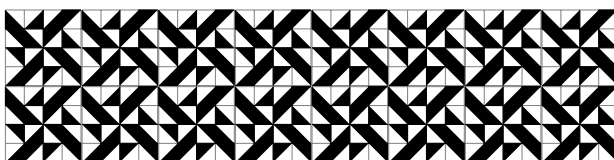
1211

3303



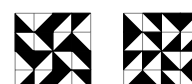
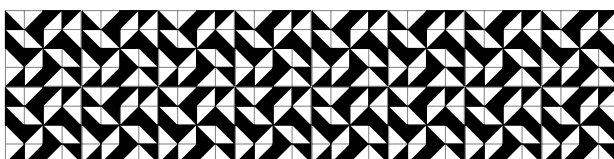
1033

1123



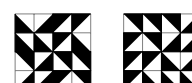
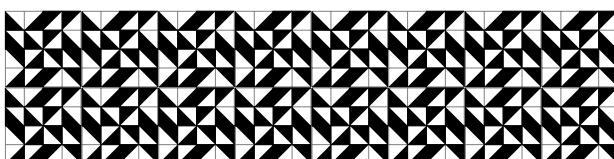
1031

3123



1013

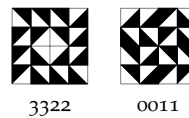
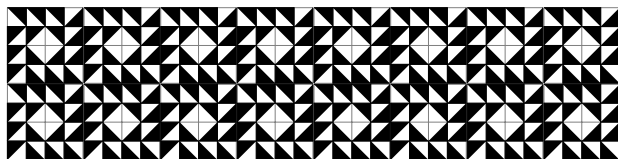
1323



1011

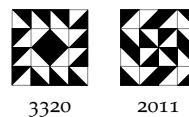
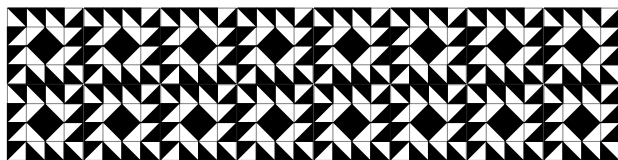
3323

Frieze patterns for family 1100 (secondary, 0011)



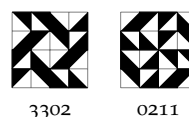
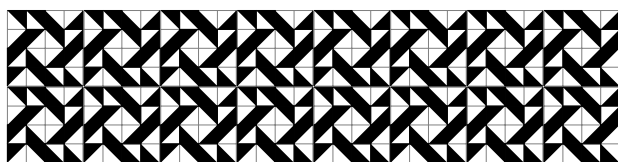
3322

0011



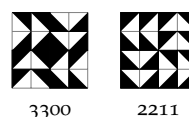
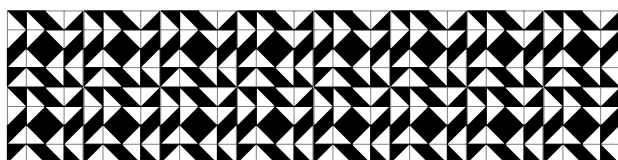
3320

2011



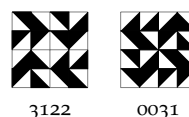
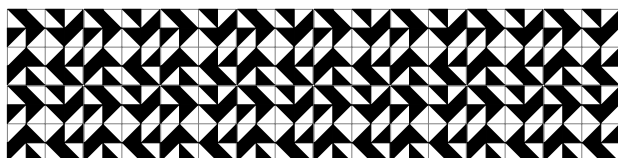
3302

0211



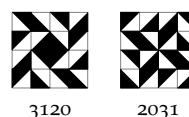
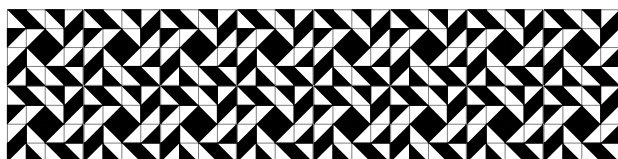
3300

2211



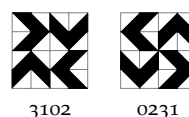
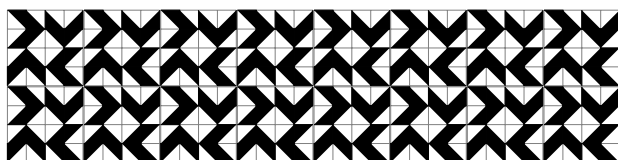
3122

0031



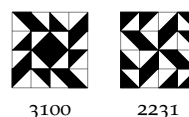
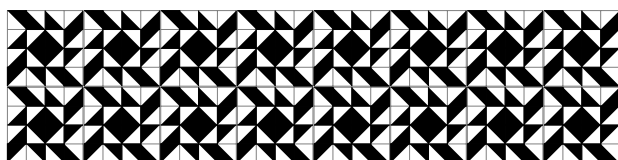
3120

2031



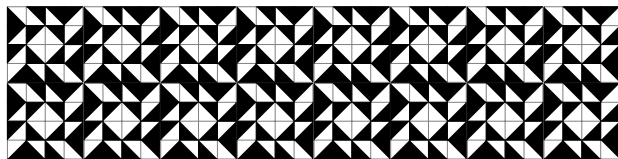
3102

0231



3100

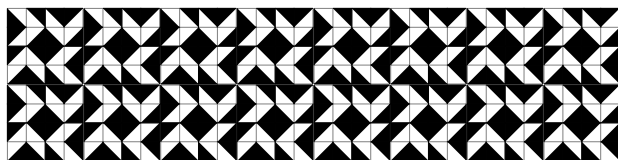
2231



1322



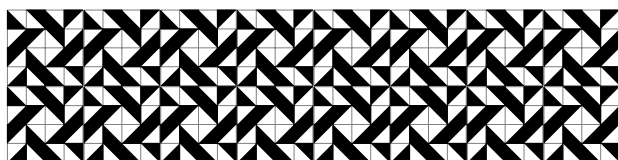
0013



1320



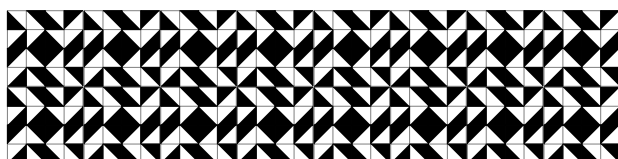
2013



1302



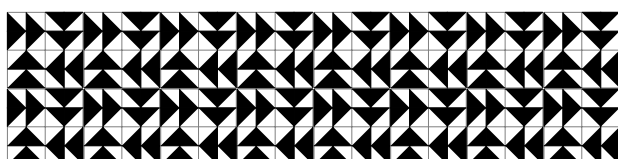
0213



1300



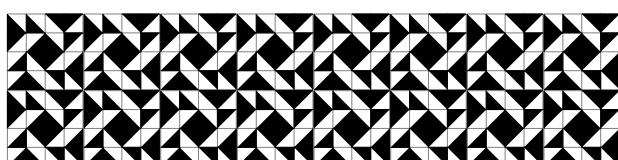
2213



1122



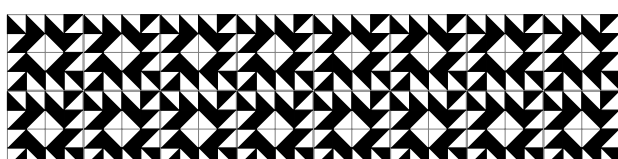
0033



1120



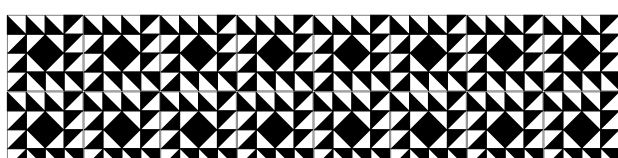
2033



1102



0233

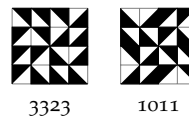
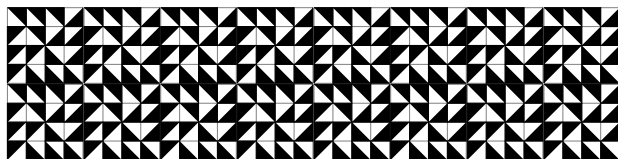


1100



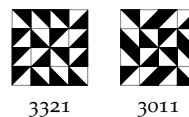
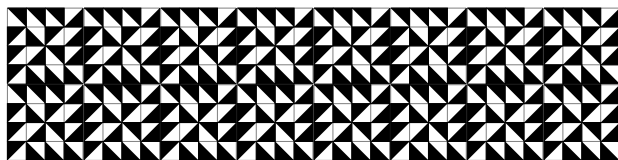
2233

Frieze patterns for family 1101 (secondary, 1011)



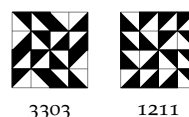
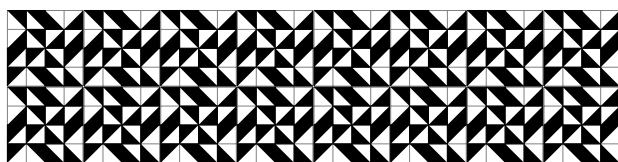
3323

1011



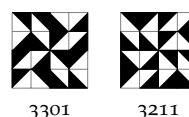
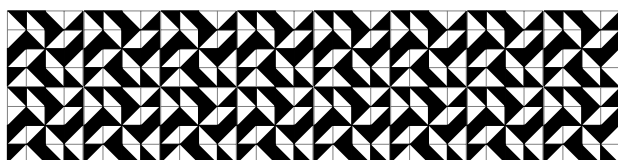
3321

3011



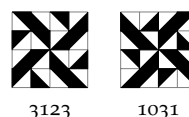
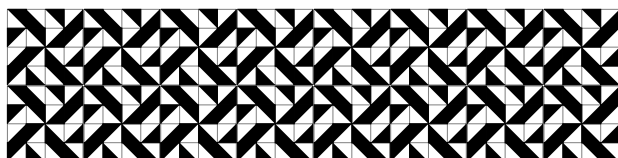
3303

1211



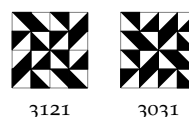
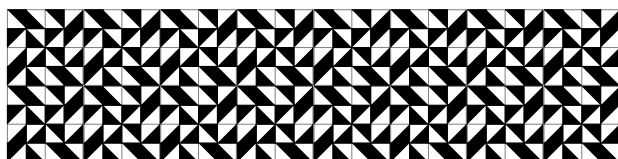
3301

3211



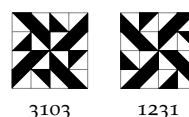
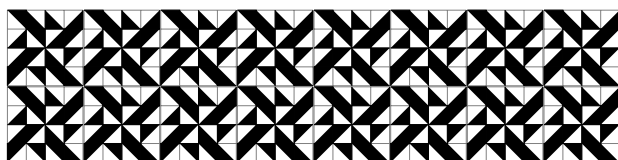
3123

1031



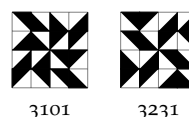
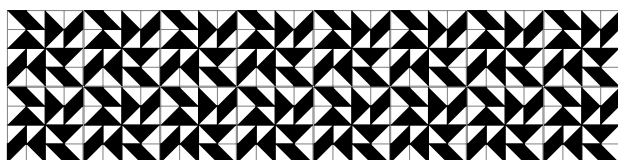
3121

3031



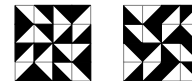
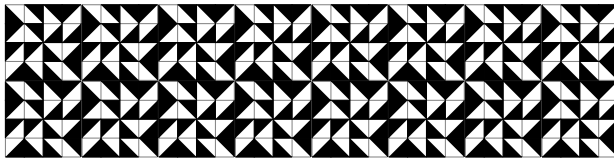
3103

1231



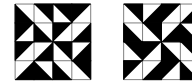
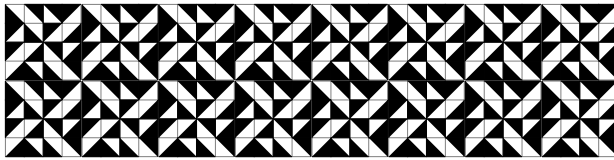
3101

3231



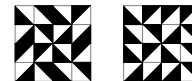
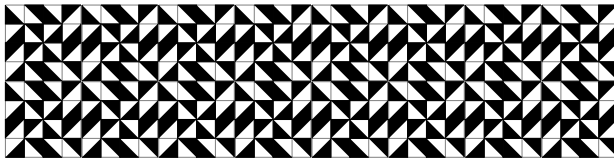
1323

1013



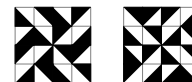
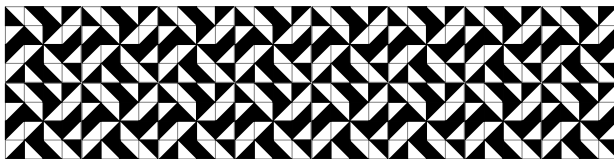
1321

3013



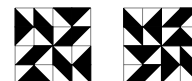
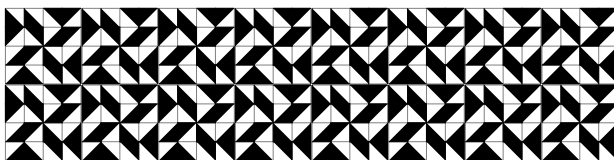
1303

1213



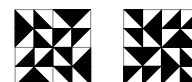
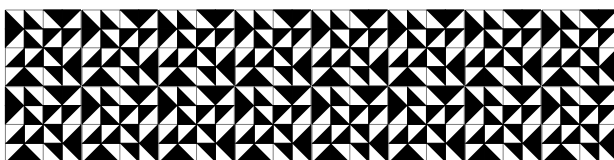
1301

3213



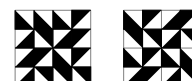
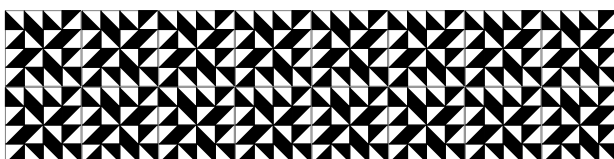
1123

1033



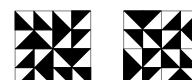
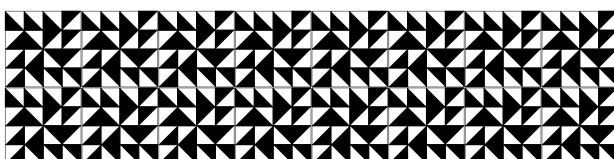
1121

3033



1103

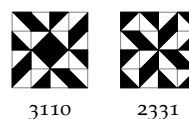
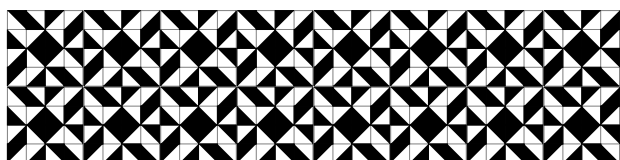
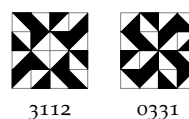
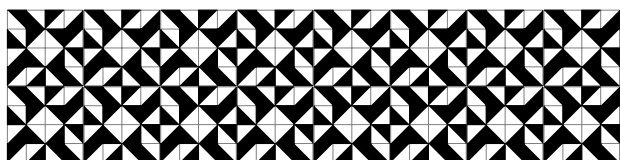
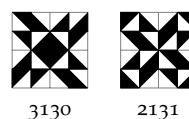
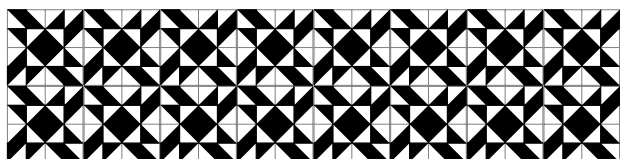
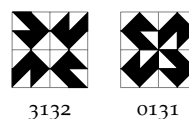
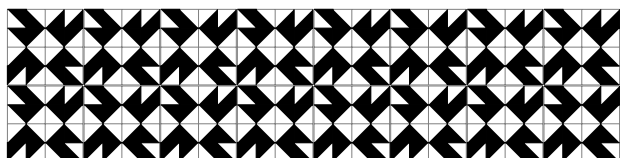
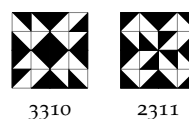
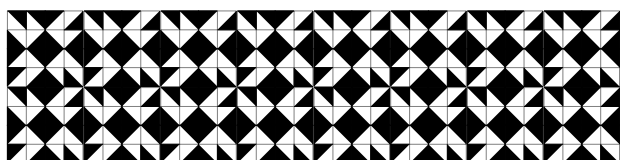
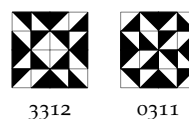
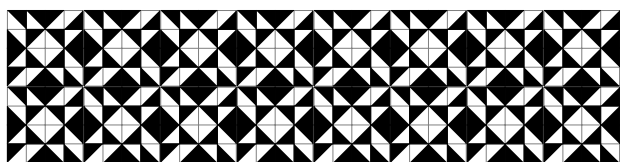
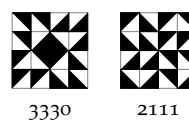
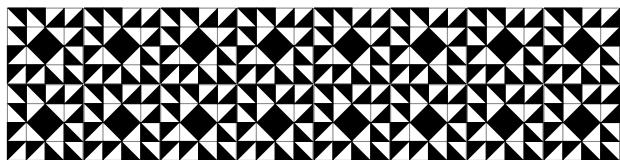
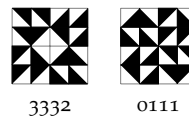
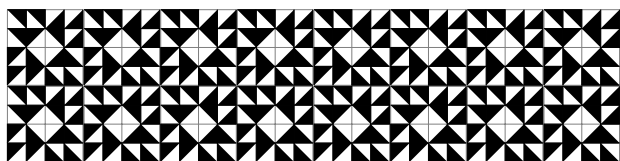
1233

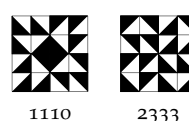
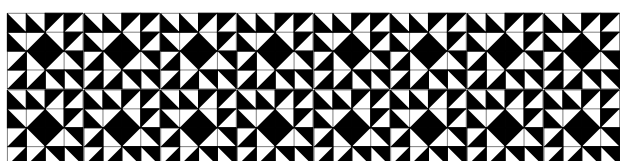
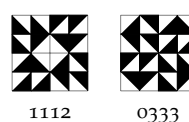
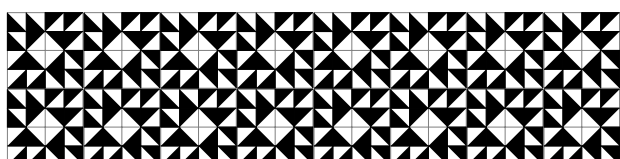
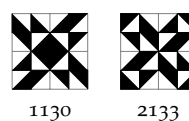
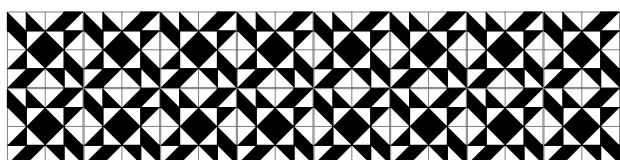
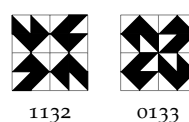
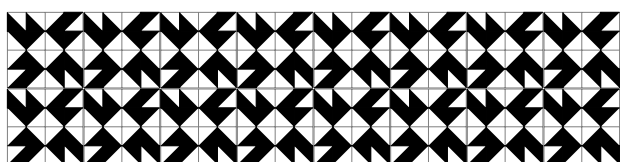
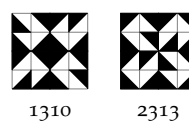
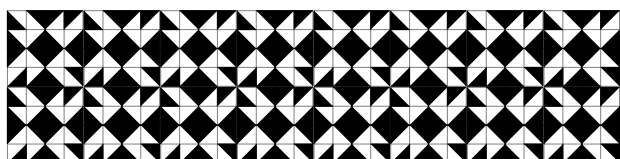
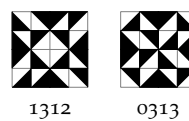
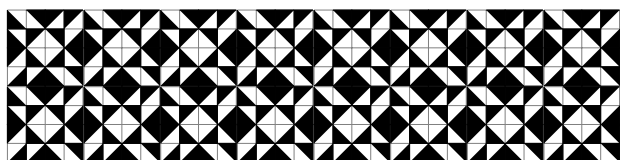
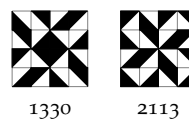
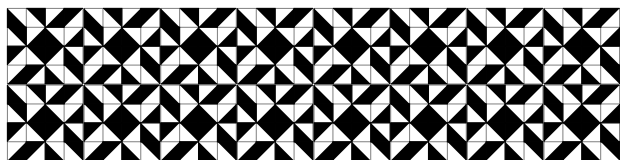
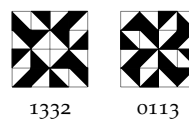
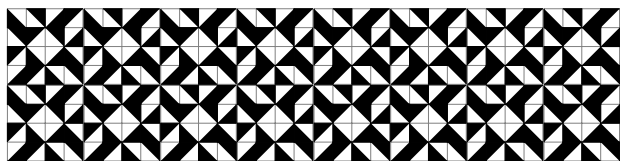


1101

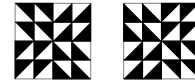
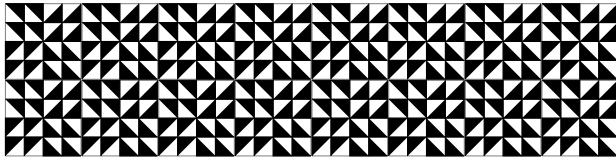
3233

Frieze patterns for family 1110 (secondary, 0111)



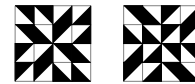
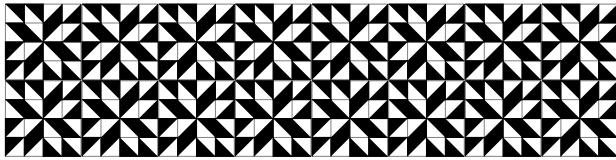


Frieze patterns for family 1111 (secondary, 1111)



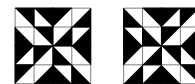
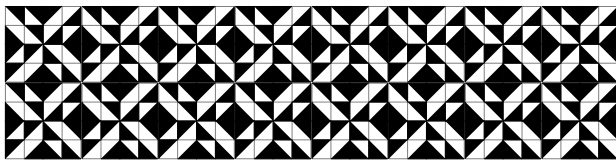
3333

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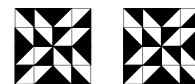
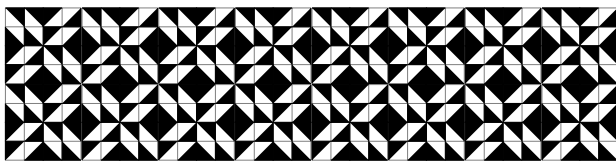
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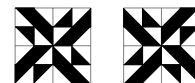
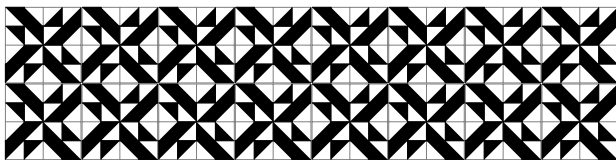
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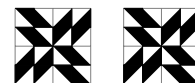
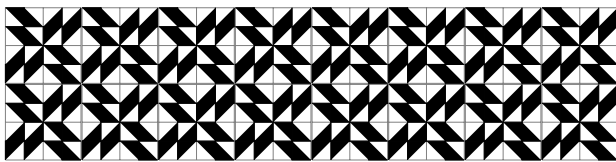
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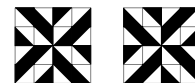
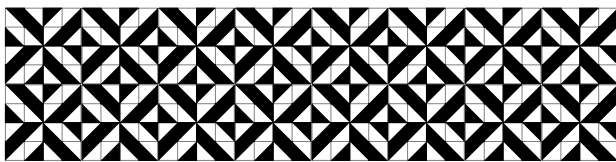
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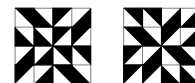
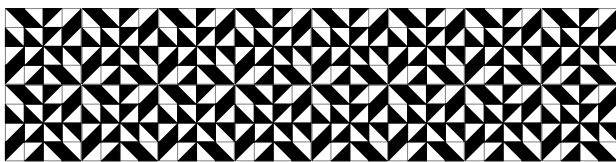
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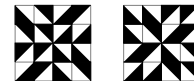
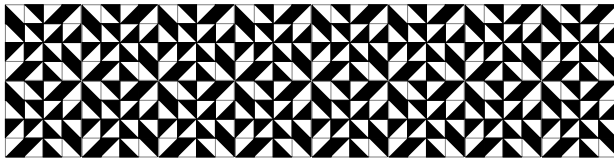
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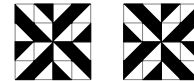
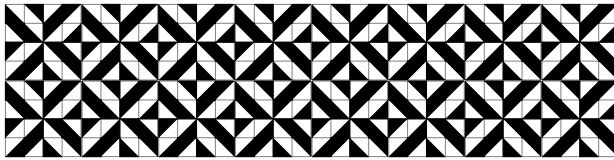
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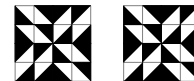
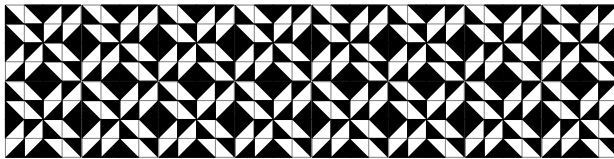
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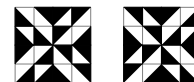
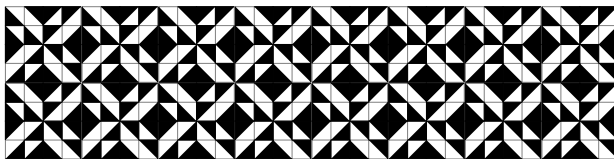
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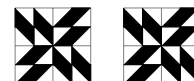
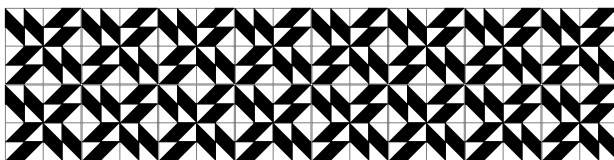
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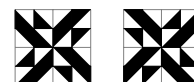
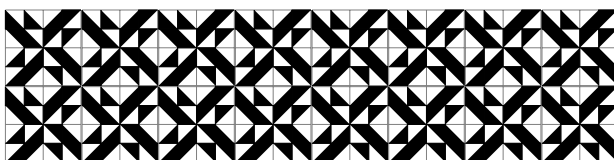
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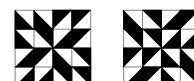
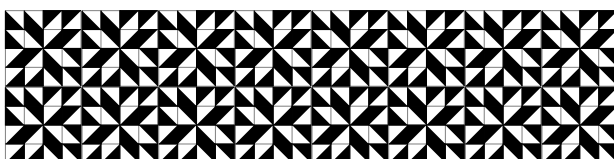
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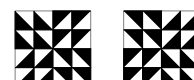
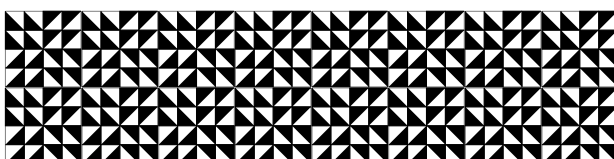
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