

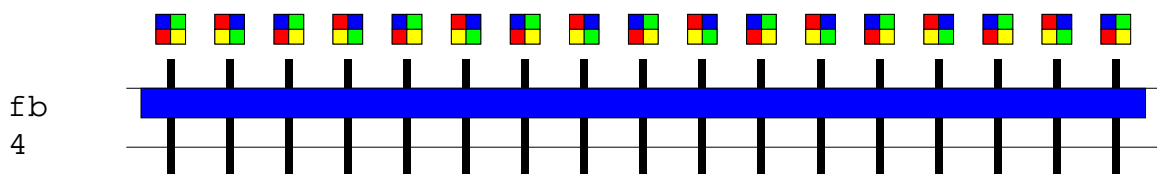
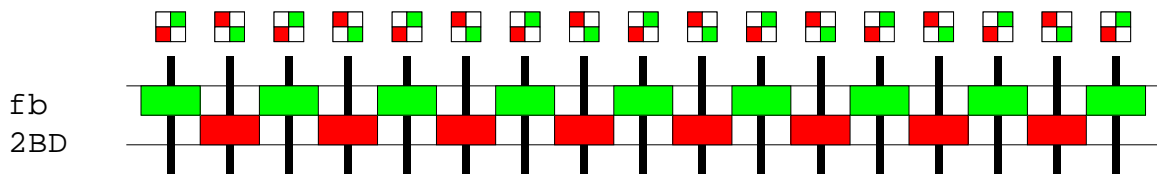
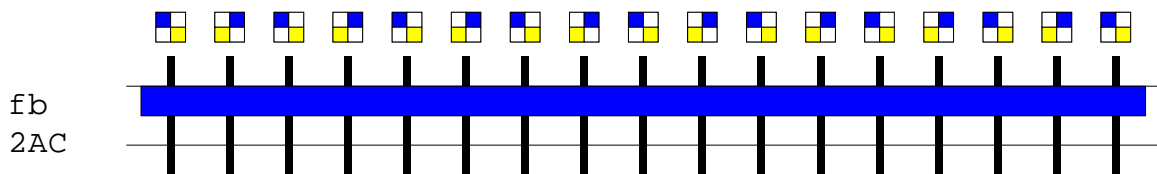
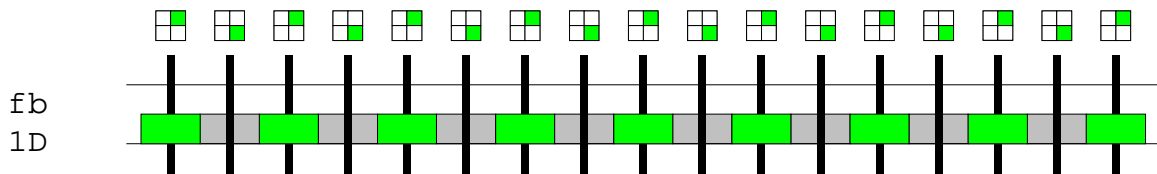
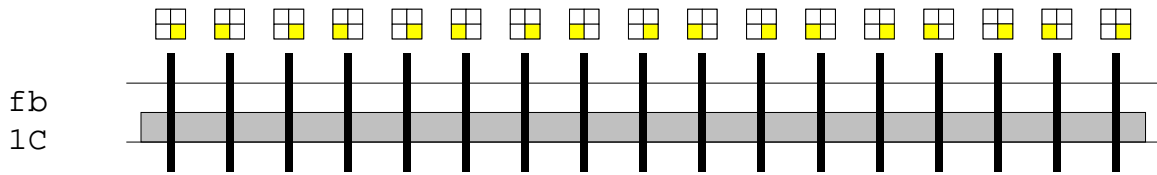
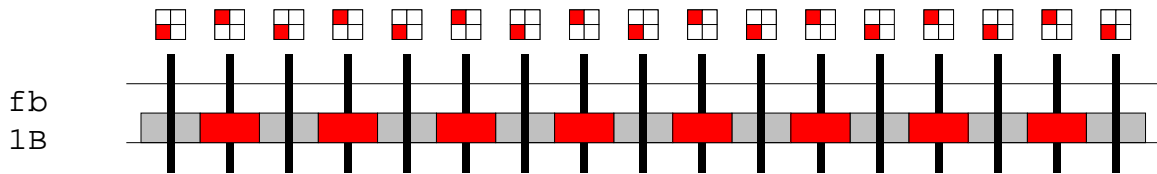
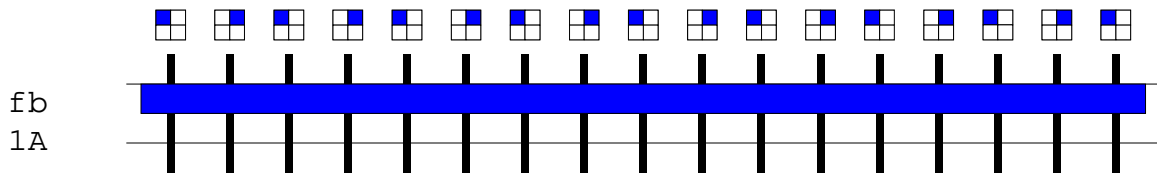
**fb synonyms:**

all 4-S are equivalent, as are all 4-Z but they both have unwoven warps

all 2-AC-S are equivalent, as are all 2AC-Z, but they are loose warps, not woven

2-BD-1-S = 2BD-3-S = 2-BD-2-Z = 2-BD-4-Z

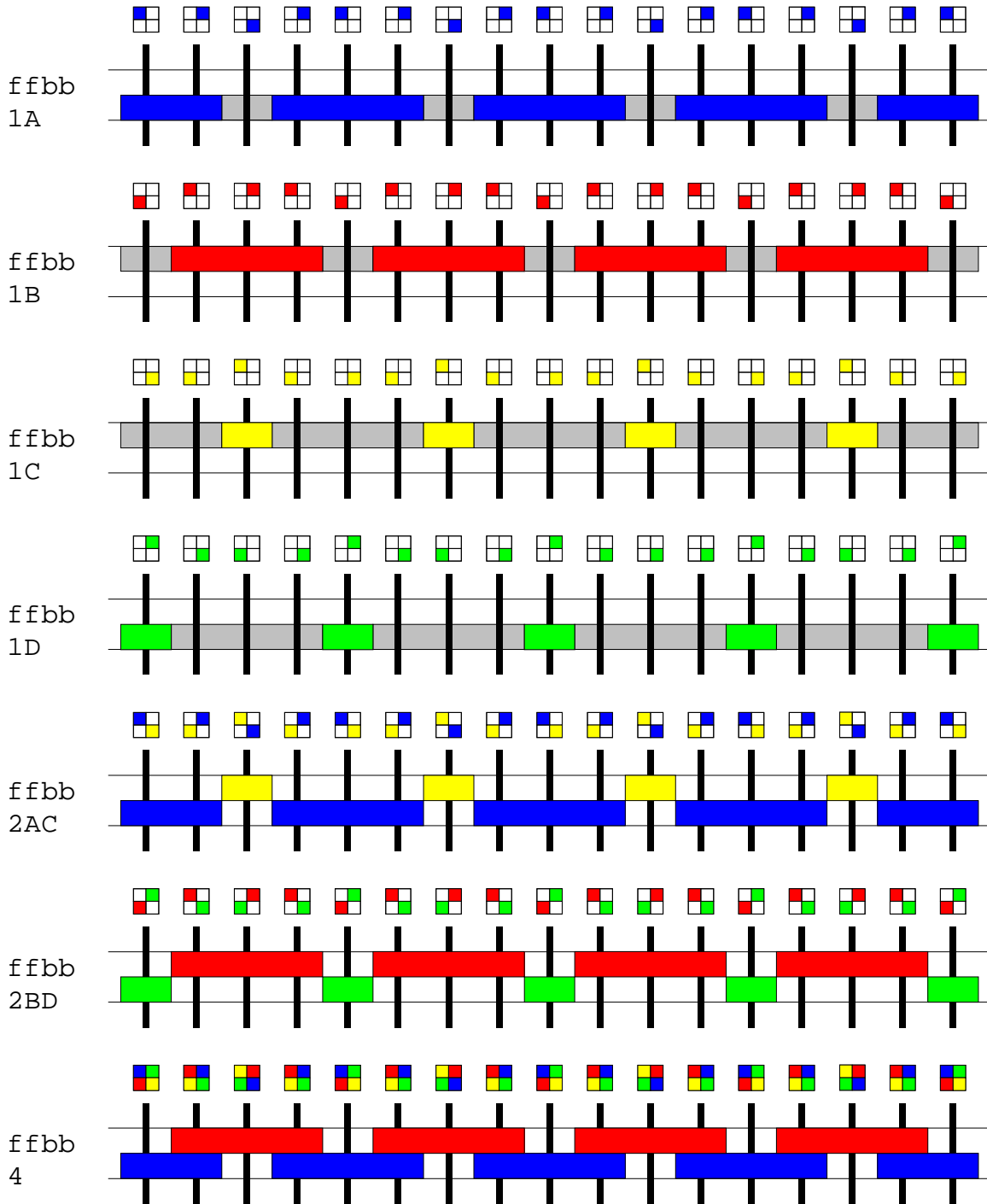
2-BD-1-Z = 2BD-3-Z = 2-BD-2-S = 2-BD-4-S



**ffbb synonyms**

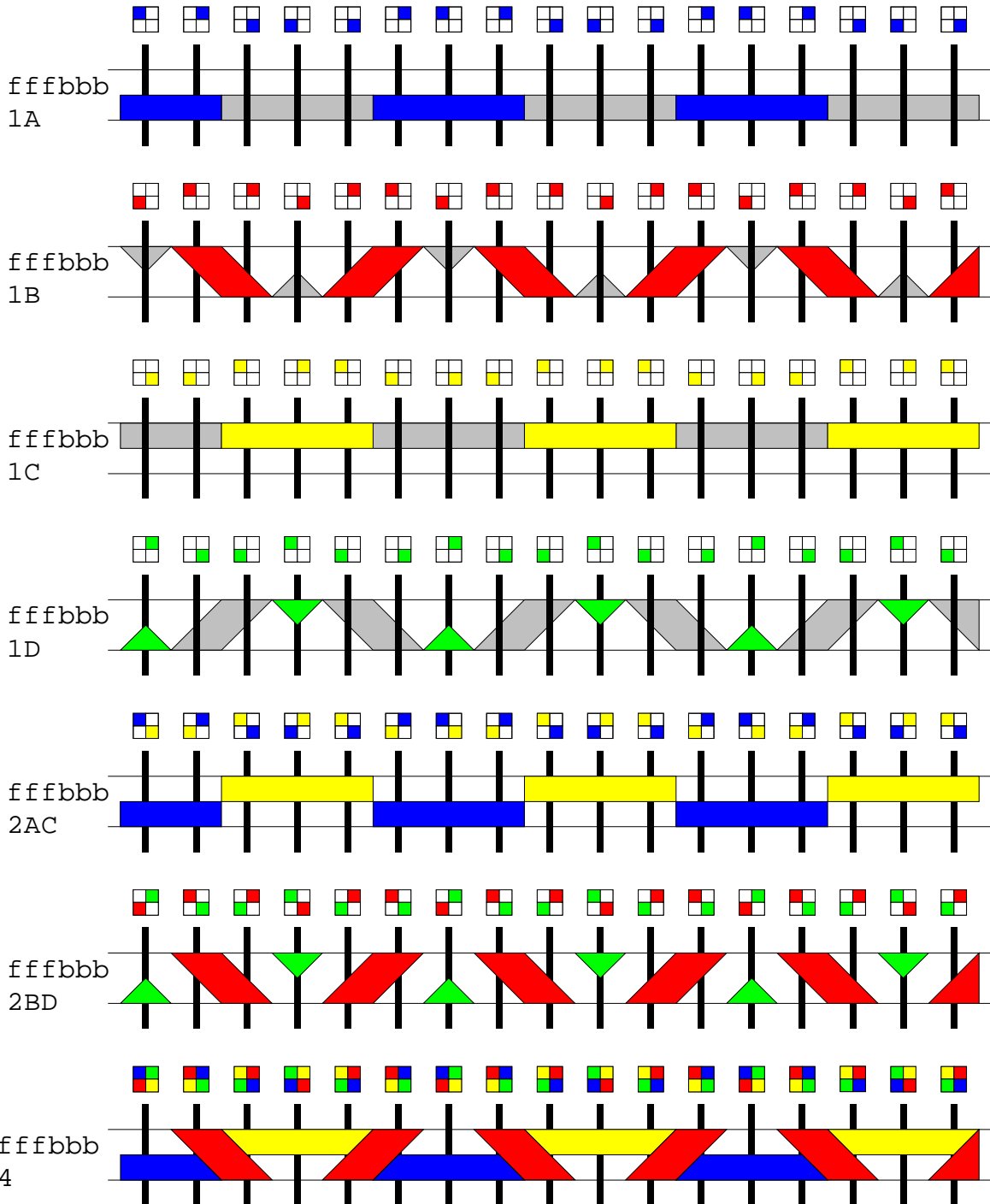
4-1-S = 4-3-Z      4-1-Z = 4-3-S  
 4-2-S = 4-4-Z      4-2-Z = 4-4-S

2AC-1-S = 2BD-3-Z      2AC-1-Z = 2BD-3-S  
 2AC-2-S = 2BD-4-Z      2AC-2-Z = 2BD-4-S



**ffbbb**

No synonyms



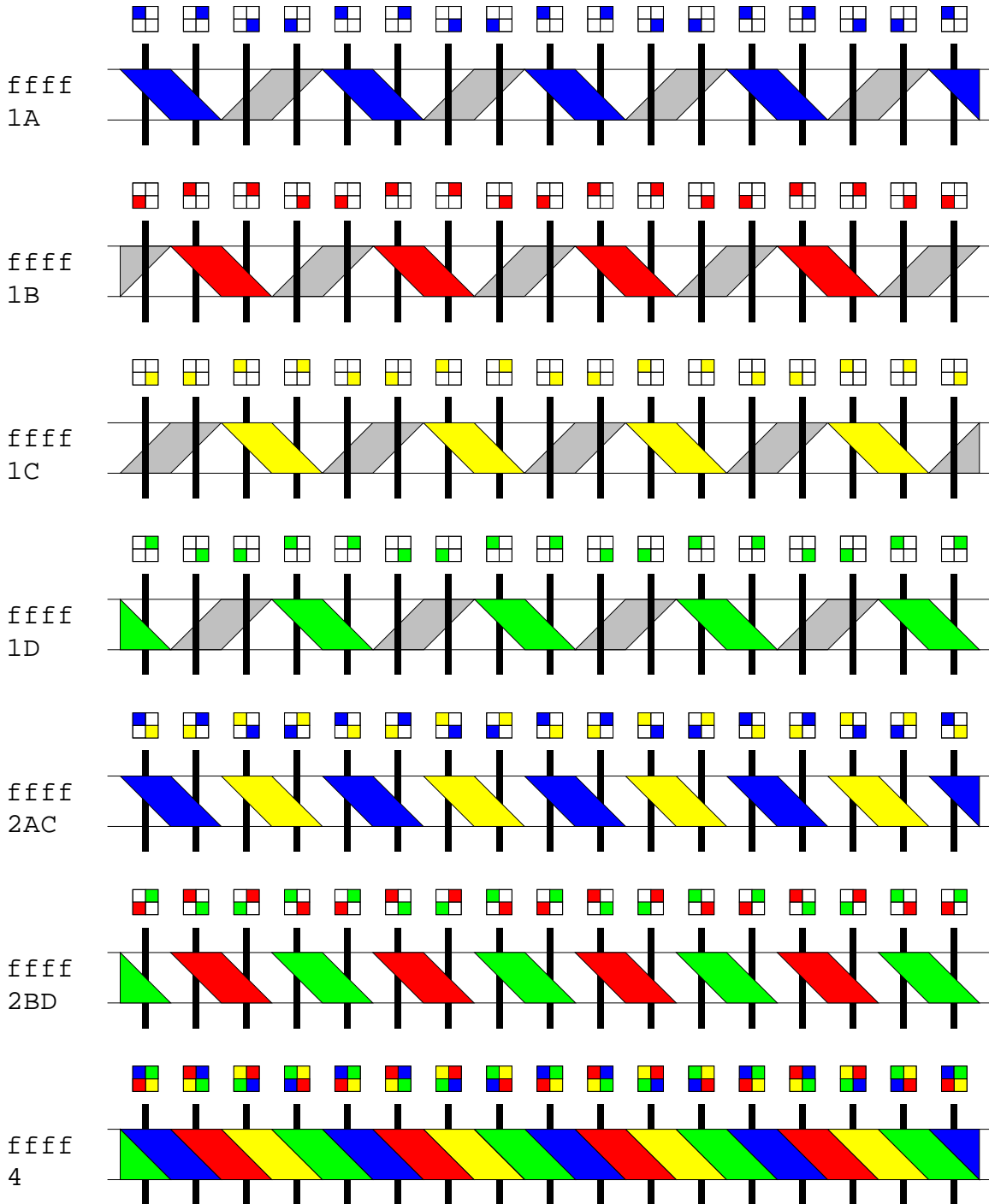
**ffff synonyms:**

within S or Z, 4-1 = 4-2 = 4-3 = 4-4 (S and Z always different)

2AC-1 = 2AC-3 = 2BD-2 = 2BD-4

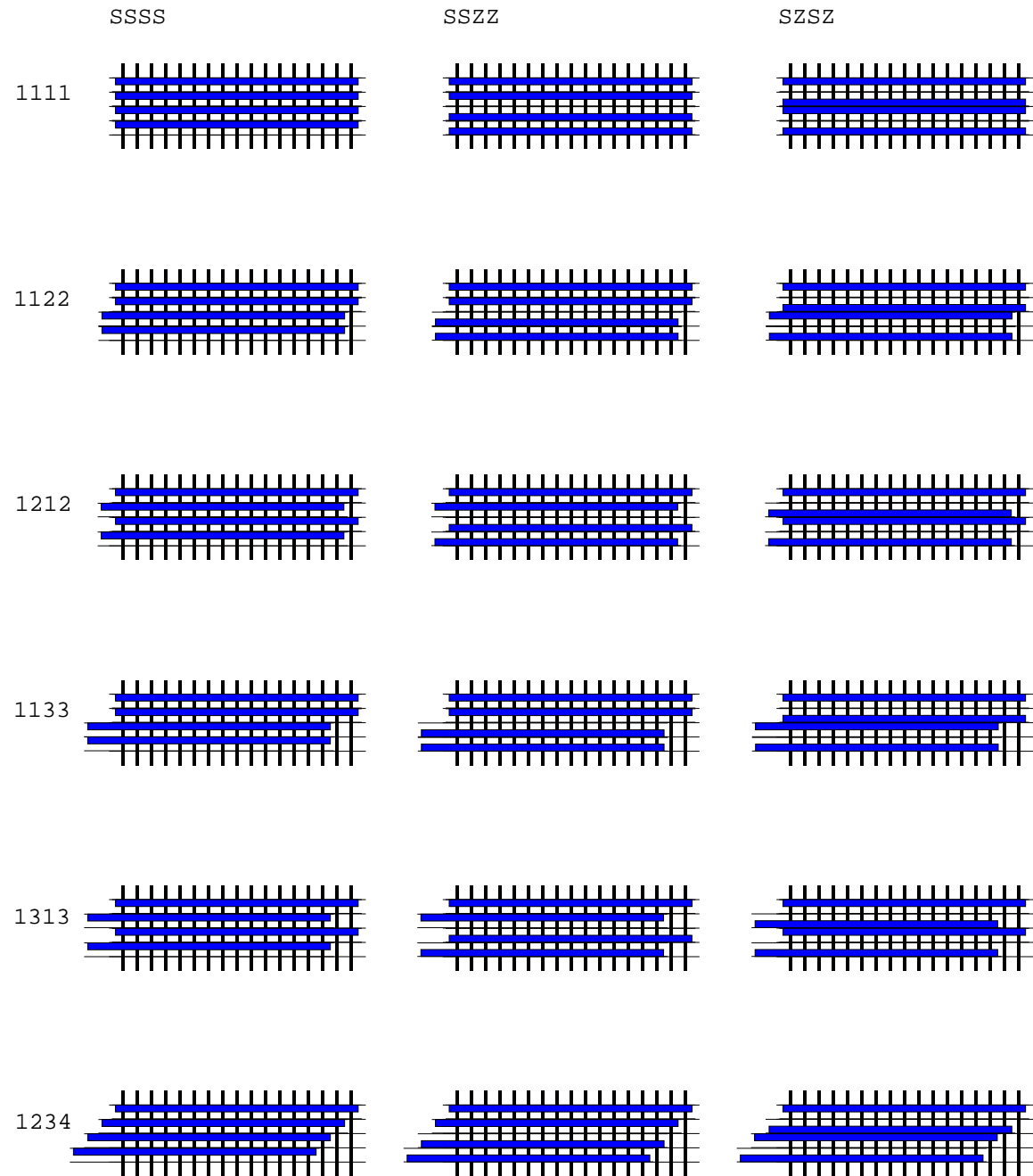
2AC-2 = 2AC-4 = 2BD-1 = 2BD-3

Structure is relative, not absolute so for example AAAA-1111 = BBBB-2222



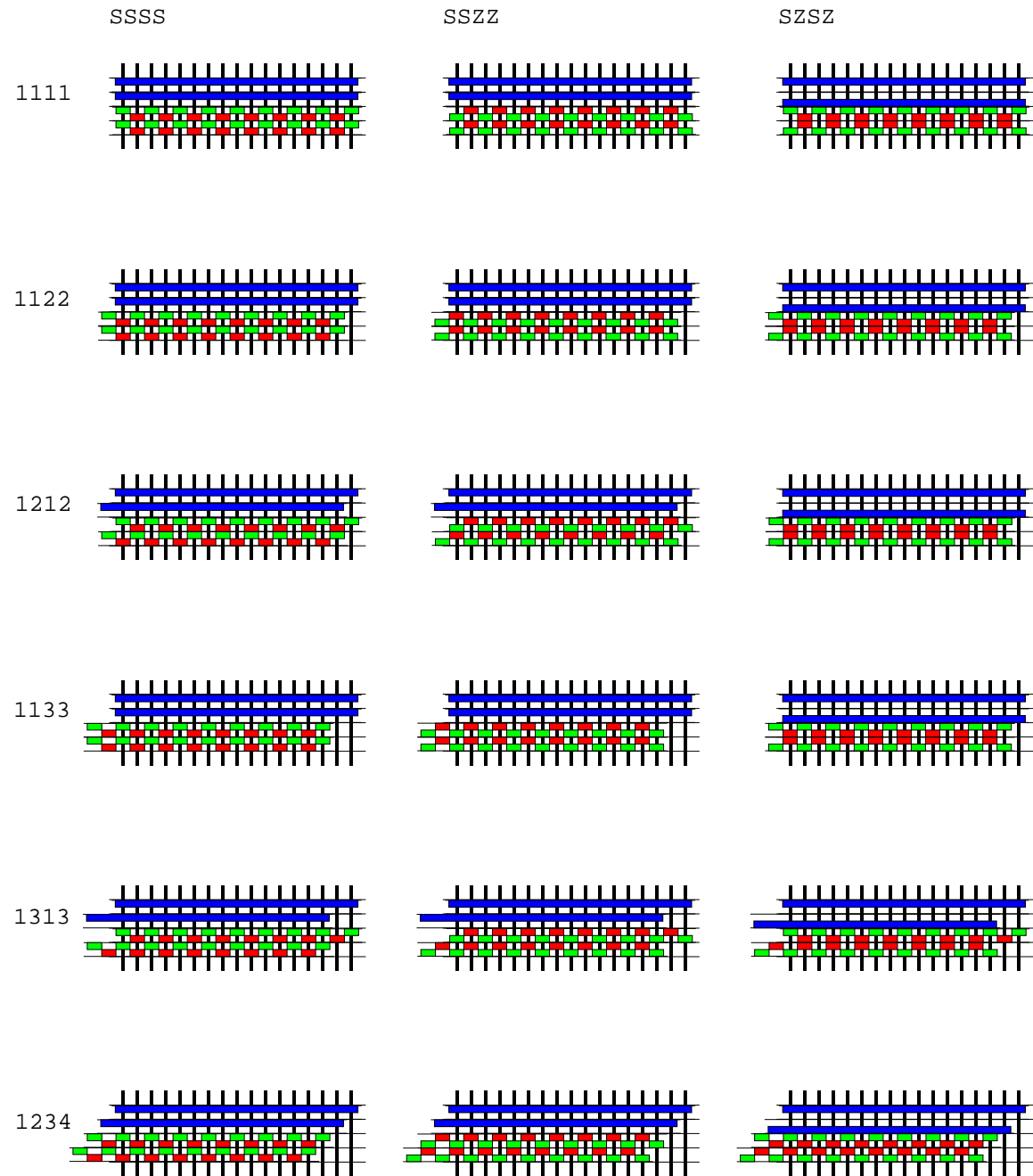
2-AAAA-fb

Loose warps



## 2-AABB-fb

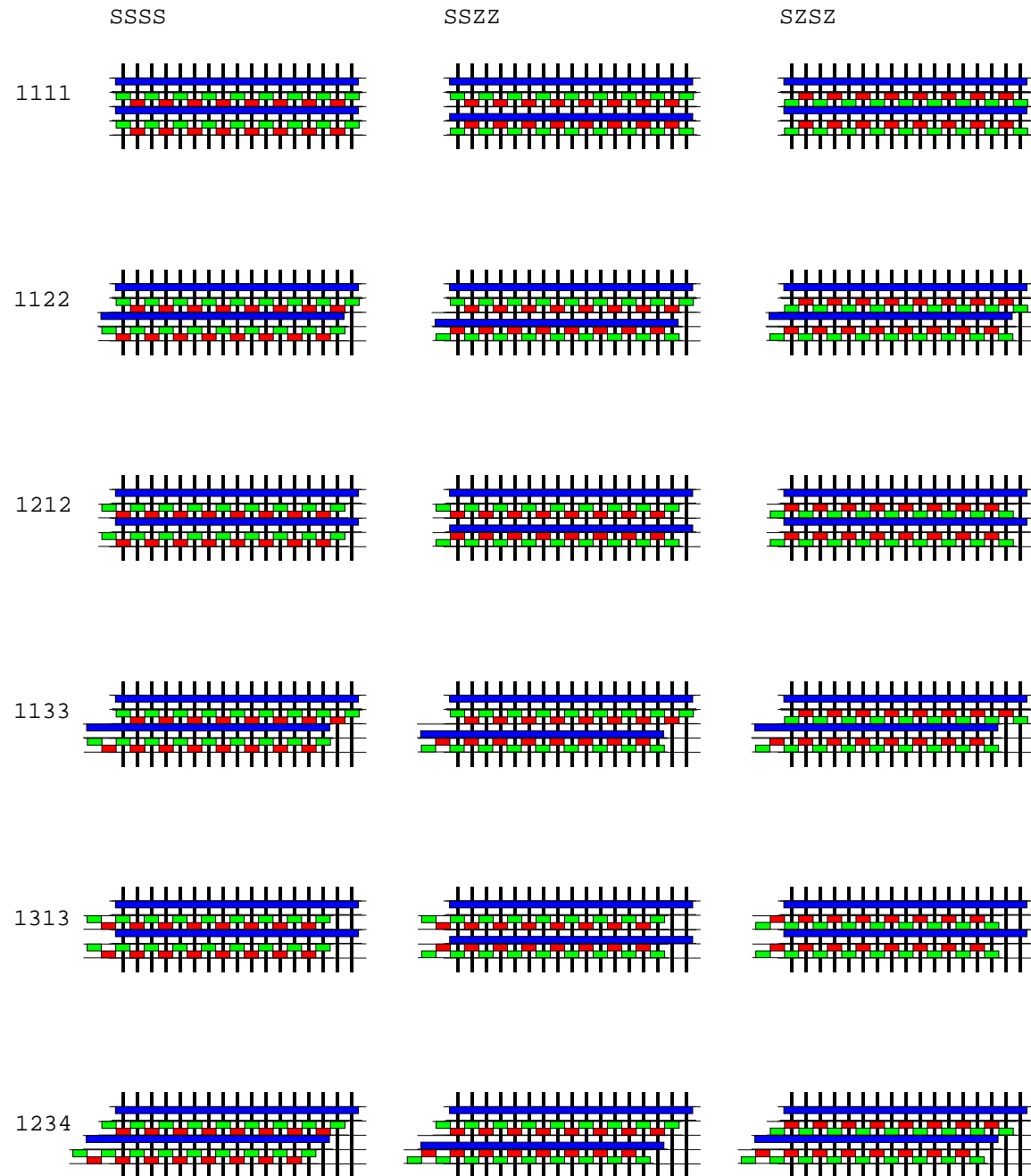
Loose warps



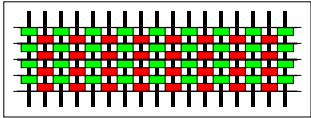
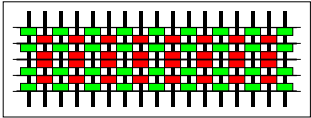
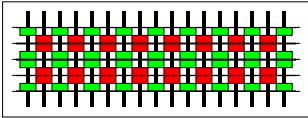
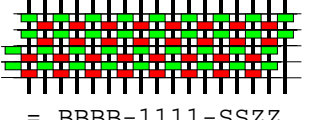
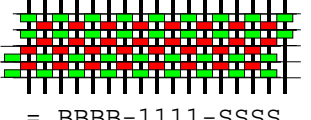
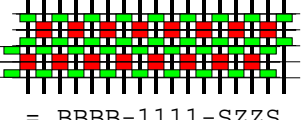
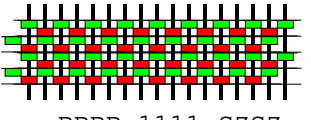
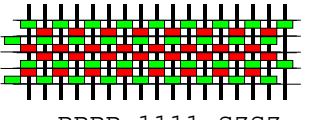
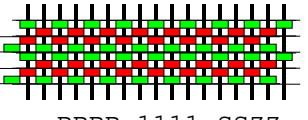
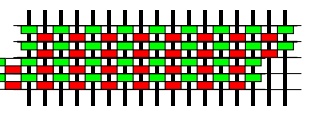
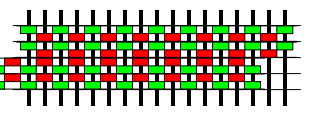
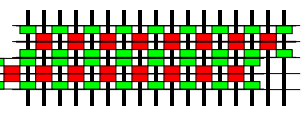
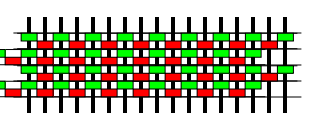
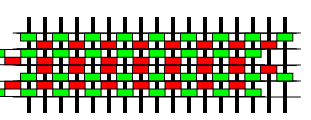
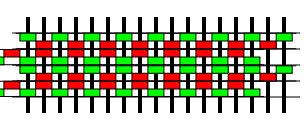
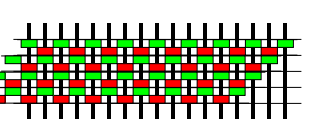
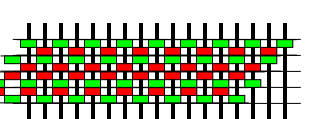
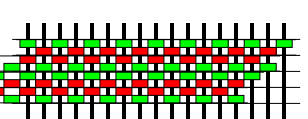
## 2-ABAB-fb

TW Theory: <http://www.stringpage.com>

Loose warps



2-BBBB-fb

	SSSS	SSZZ	SZSZ
1111	 <p>plain weave/tabby known examples</p>	 <p>unnamed no examples</p>	 <p>unnamed no examples</p>
1122	 <p>= BBBB-1111-SSZZ</p>	 <p>= BBBB-1111-SSSS</p>	 <p>= BBBB-1111-SZSZ</p>
1212	 <p>= BBBB-1111-SZSZ</p>	 <p>= BBBB-1111-SZSZ</p>	 <p>= BBBB-1111-SSZZ</p>
1133	 <p>= BBBB-1111-SSSS</p>	 <p>= BBBB-1111-SSZZ</p>	 <p>= BBBB-1111-SZSZ</p>
1313	 <p>= BBBB-1111-SSSS</p>	 <p>= BBBB-1111-SSZZ</p>	 <p>= BBBB-1111-SZSZ</p>
1234	 <p>= BBBB-1111-SZSZ</p>	 <p>= BBBB-1111-SZSZ</p>	 <p>= BBBB-1111-SSZZ</p>

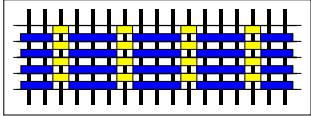
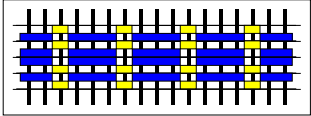
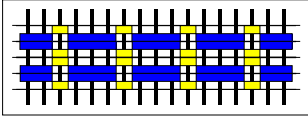
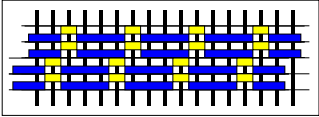
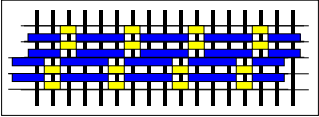
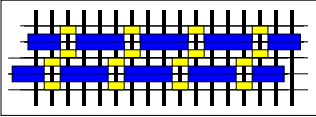
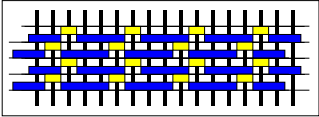
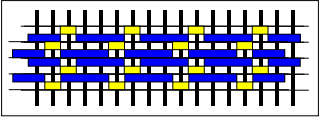
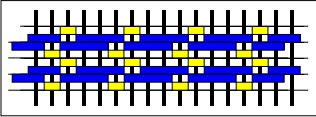
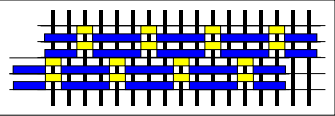
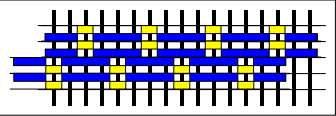
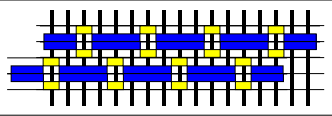
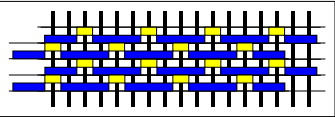
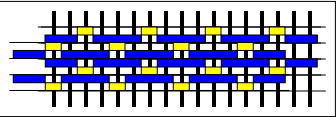
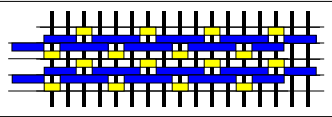
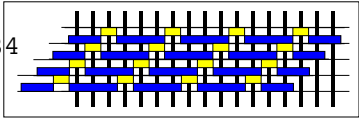
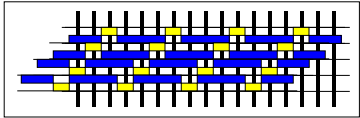
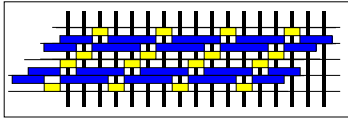


4-fb

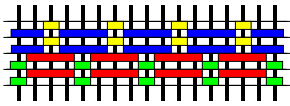
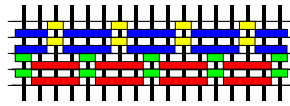
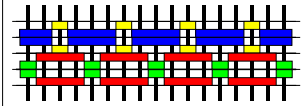
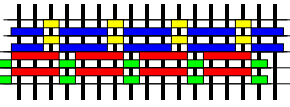
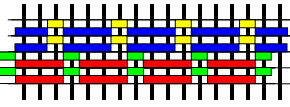
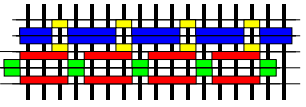
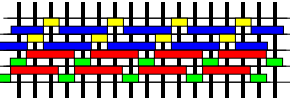
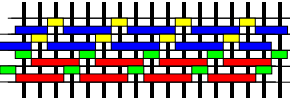
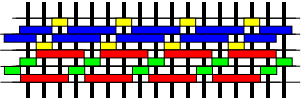
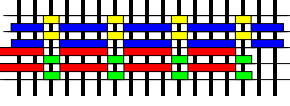
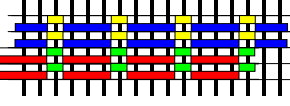
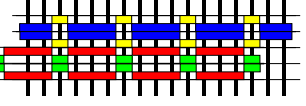
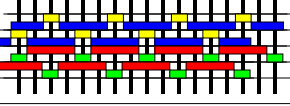
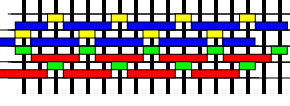
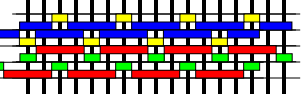
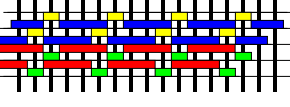
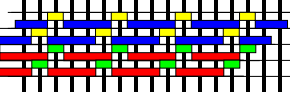
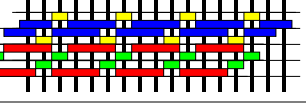
Loose warps over plain weave

	SSSS	SSZZ	SZSZ
1111			
1122			
1212			
1133			
1313			
1234			

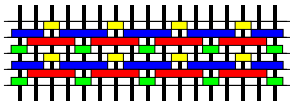
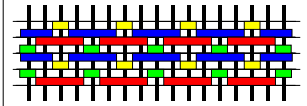
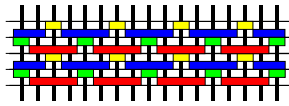
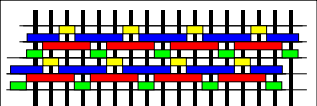
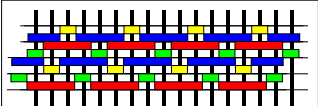
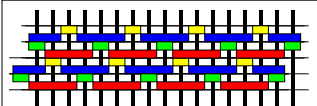
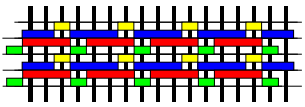
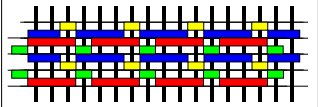
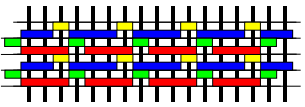
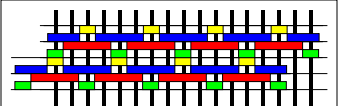
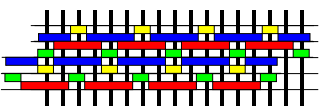
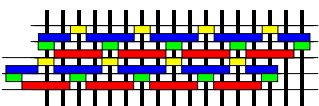
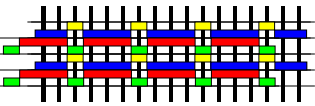
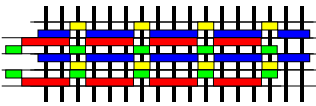
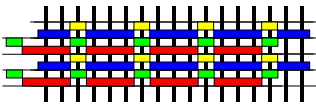
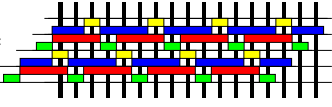
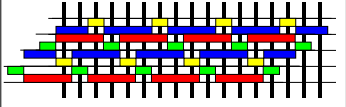
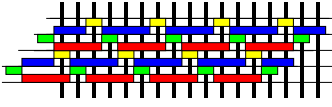
2-AAAA-fbb

	SSSS	SSZZ	SZSZ
1111	 unnamed no examples	 unnamed no examples	 unnamed no examples
1122	 unnamed no examples	 unnamed no examples	 unnamed no examples
1212	 unnamed no examples	 unnamed no examples	 unnamed no examples
1133	 unnamed no examples	 unnamed no examples	 unnamed no examples
1313	 unnamed no examples	 unnamed no examples	 unnamed no examples
1234	 unnamed no examples	 unnamed no examples	 unnamed no examples

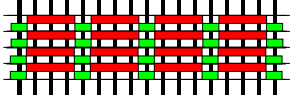
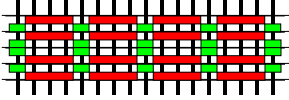
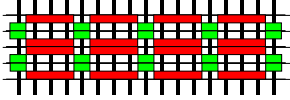
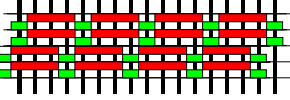
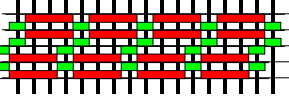
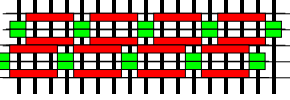

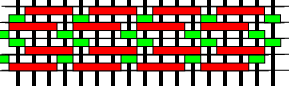
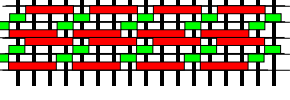
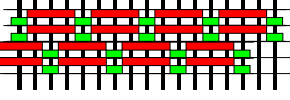
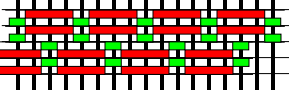
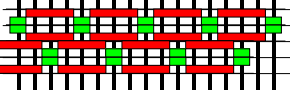
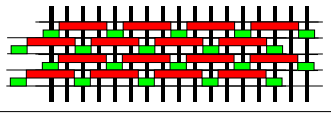
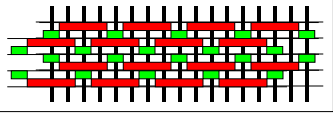
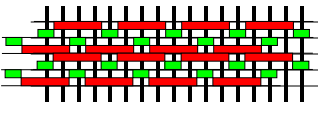
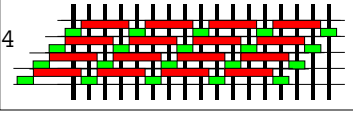
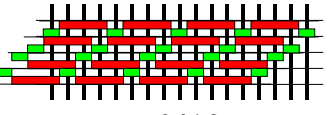
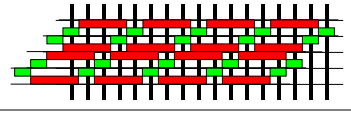
2-AABB-f fbb

	SSSS	SSZZ	SZSZ
1111	 <p>= AAAA-1133-SSZZ</p>	 <p>= AAAA-1122-SSSS</p>	 <p>unnamed no examples</p>
1122	 <p>= AAAA-1144-SSZZ</p>	 <p>= AAAA-1144-SSSS</p>	 <p>unnamed no examples</p>
1212	 <p>= AAAA-1234-SSZZ</p>	 <p>= AAAA-1234-SSSS</p>	 <p>unnamed no examples</p>
1133	 <p>= AAAA-1111-SSZZ</p>	 <p>= AAAA-1111-SSSS</p>	 <p>= AAAA-1111-SZSZ</p>
1313	 <p>unnamed no examples</p>	 <p>= AAAA-1331-SSSS</p>	 <p>= AAAA-1331-SZSZ</p>
1234	 <p>= AAAA-1212-SSZZ</p>	 <p>= AAAA-1212-SSSS</p>	 <p>unnamed no examples</p>

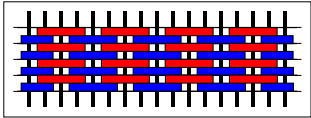
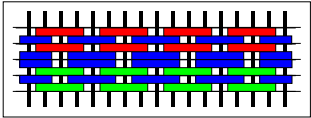
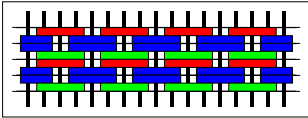
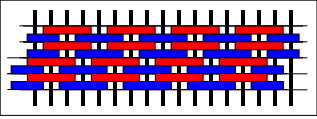
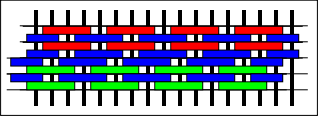
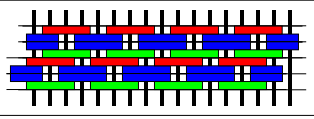
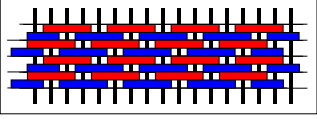
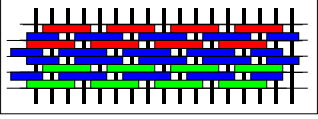
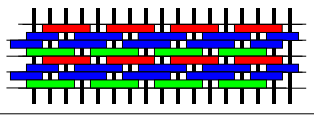
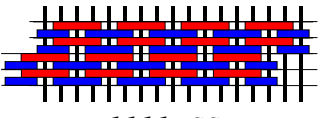
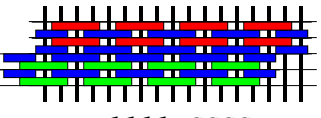
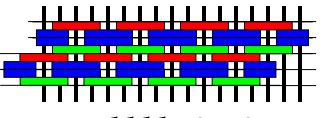
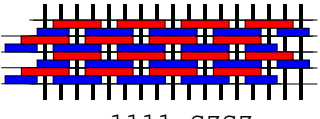
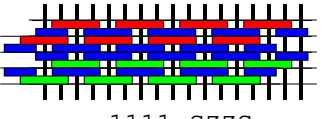
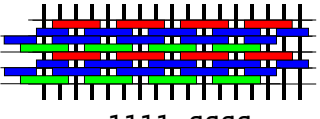
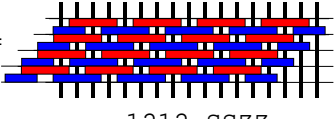
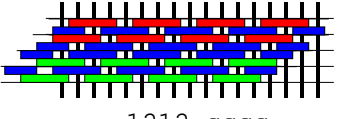
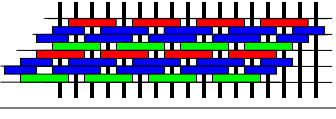
2-ABAB-fbb

	SSSS	SSZZ	SZSZ
1111	 <p>= AAAA-1313-SZSZ</p>	 <p>unnamed no examples</p>	 <p>= AAAA-1313-SSSS</p>
1122	 <p>unnamed no examples</p>	 <p>unnamed no examples</p>	 <p>unnamed no examples</p>
1212	 <p>= AAAA-1414-SZSZ</p>	 <p>unnamed no examples</p>	 <p>= AAAA-1414-SSSS</p>
1133	 <p>Hochdorf (pebble) weave known examples</p>	 <p>= AAAA-1331-SZZS</p>	 <p>= AAAA-1331-SSSS</p>
1313	 <p>= AAAA-1111-SZSZ</p>	 <p>= AAAA-1111-SZZS</p>	 <p>= AAAA-1111-SSSS</p>
1234	 <p>= AAAA-1432-SZSZ</p>	 <p>unnamed no examples</p>	 <p>= AAAA-1432-SSSS</p>

2-BBBB-fbb

	SSSS	SSZZ	SZSZ
1111	 = AAAA-3333-ZZZZ	 = AAAA-3333-ZZSS	 = AAAA-3333-ZSZS
1122	 = AAAA-3344-ZZZZ	 = AAAA-3344-ZZSS	 = AAAA-3344-ZSZS
1212	 = AAAA-3434-ZZZZ	 = AAAA-3434-ZZSS	 = AAAA-3434-ZSZS
1133	 = AAAA-3311-ZZZZ	 = AAAA-3311-ZZSS	 = AAAA-3311-ZSZS
1313	 unnamed no examples	 unnamed no examples	 = AAAA-3131-ZSZS
1234	 unnamed no examples	 = AAAA-3412-ZZSS	 unnamed no examples

4 - fbb

	SSSS	SSZZ	SZSZ
1111	 <p>doubleface known examples</p>	 <p>unnamed no examples</p>	 <p>doubleface known examples</p>
1122	 <p>unnamed no examples</p>	 <p>unnamed no examples</p>	 <p>unnamed no examples</p>
1212	 <p>unnamed no examples</p>	 <p>3/1 twill known examples</p>	 <p>unnamed no examples</p>
1133	 <p>= 1111-SSZZ</p>	 <p>= 1111-SSSS</p>	 <p>= 1111-SZZS</p>
1313	 <p>= 1111-SZSZ</p>	 <p>= 1111-SZZS</p>	 <p>= 1111-SSSS</p>
1234	 <p>= 1212-SSZZ</p>	 <p>= 1212-SSSS</p>	 <p>unnamed no examples</p>

2-AAAA-ffffbb

All unique

	SSSS	SSZZ	SZSZ
1111			
	unnamed no examples	unnamed no examples	unnamed no examples
1122			
	unnamed no examples	unnamed no examples	unnamed no examples
1212			
	unnamed no examples	unnamed no examples	unnamed no examples
1133			
	unnamed no examples	unnamed no examples	unnamed no examples
1313			
	unnamed no examples	unnamed no examples	unnamed no examples
1234			
	unnamed no examples	unnamed no examples	unnamed no examples

2-AABB-ffffbbb

All unique

	SSSS	SSZZ	SZSZ
1111			
	unnamed no examples	unnamed no examples	unnamed no examples
1122			
	unnamed no examples	unnamed no examples	unnamed no examples
1212			
	unnamed no examples	unnamed no examples	unnamed no examples
1133			
	unnamed no examples	unnamed no examples	unnamed no examples
1313			
	unnamed no examples	unnamed no examples	unnamed no examples
1234			
	unnamed no examples	unnamed no examples	unnamed no examples



2-ABAB-ffffbbb

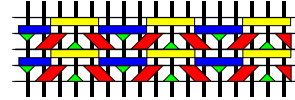
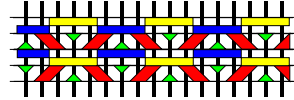
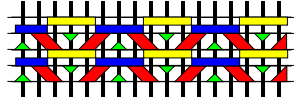
All unique

SSSS

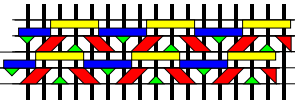
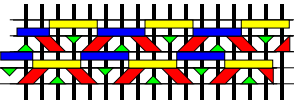
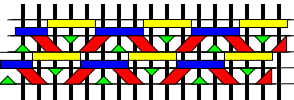
SSZZ

SZSZ

1111



1122

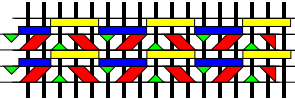
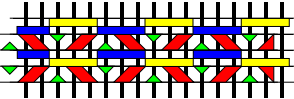
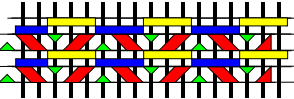


unnamed  
no examples

unnamed  
no examples

unnamed  
no examples

1212

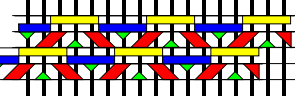
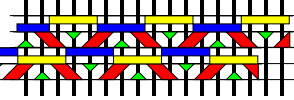
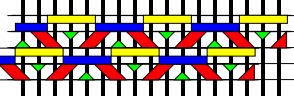


unnamed  
no examples

unnamed  
no examples

unnamed  
no examples

1133

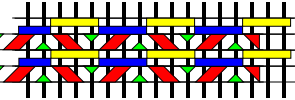
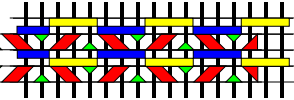
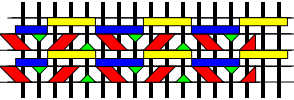


unnamed  
no examples

unnamed  
no examples

unnamed  
no examples

1313

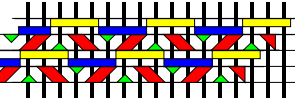
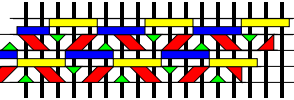
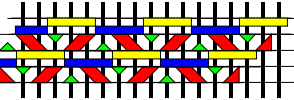


unnamed  
no examples

unnamed  
no examples

unnamed  
no examples

1234



unnamed  
no examples

unnamed  
no examples

unnamed  
no examples

2-BBBB-ffffbb

All unique

	SSSS	SSZZ	SZSZ
1111			
	unnamed no examples	unnamed no examples	unnamed no examples
1122			
	unnamed no examples	unnamed no examples	unnamed no examples
1212			
	unnamed no examples	unnamed no examples	unnamed no examples
1133			
	unnamed no examples	unnamed no examples	unnamed no examples
1313			
	unnamed no examples	unnamed no examples	unnamed no examples
1234			
	unnamed no examples	unnamed no examples	unnamed no examples

4 - f f f b b b

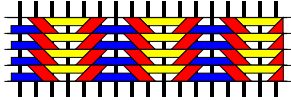
All unique

SSSS

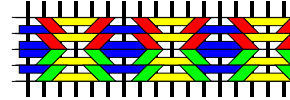
SSZZ

SZSZ

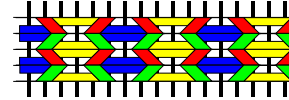
1111



unnamed  
no examples

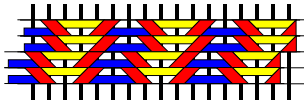


unnamed  
no examples

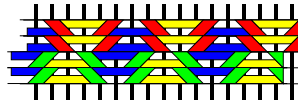


unnamed  
no examples

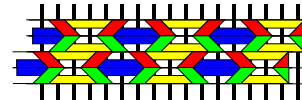
1122



unnamed  
no examples

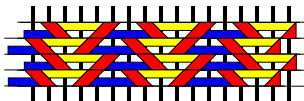


unnamed  
no examples

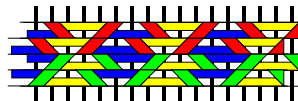


unnamed  
no examples

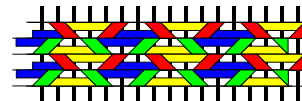
1212



unnamed  
no examples

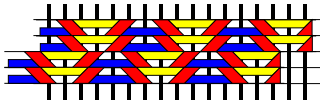


unnamed  
no examples

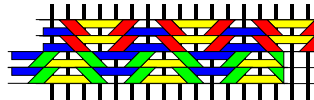


unnamed  
no examples

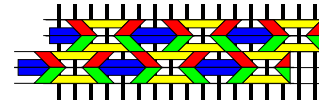
1133



unnamed  
no examples

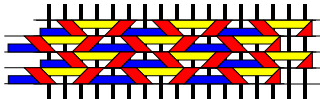


unnamed  
no examples

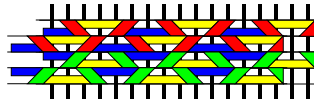


unnamed  
no examples

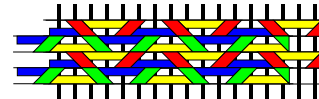
1313



unnamed  
no examples

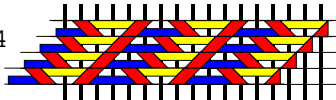


unnamed  
no examples

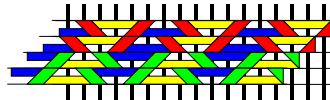


unnamed  
no examples

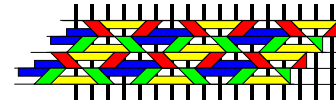
1234



unnamed  
no examples

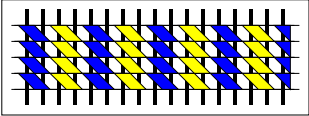
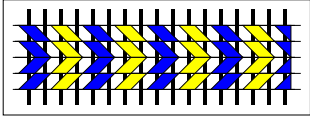
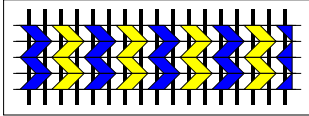
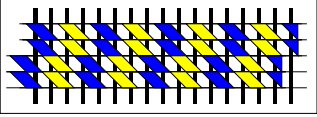
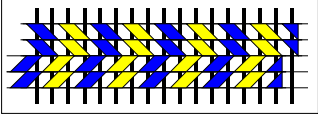
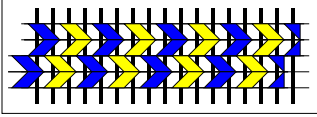
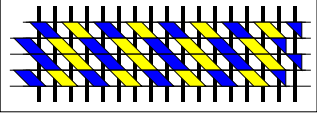
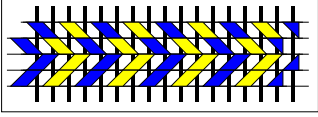
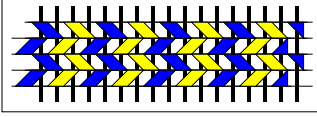
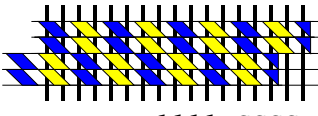
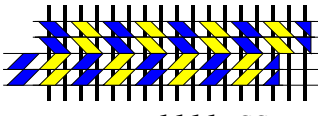
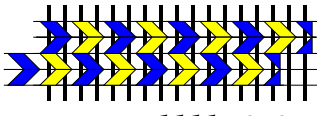
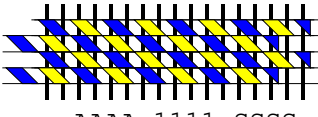
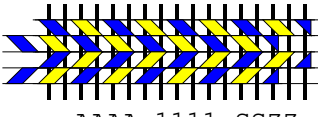
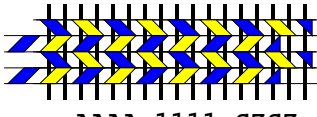
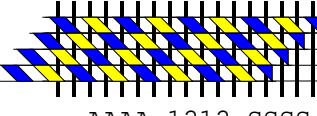
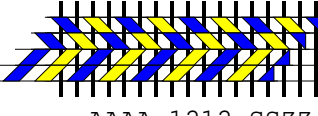
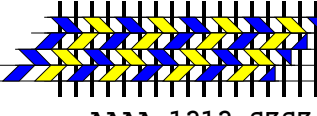


unnamed  
no examples



unnamed  
no examples

2-AAAA-ffff

	SSSS	SSZZ	SZSZ
1111	 unnamed no examples	 unnamed no examples	 unnamed known examples
1122	 unnamed no examples	 unnamed no examples	 unnamed no examples
1212	 unnamed known examples	 unnamed no examples	 unnamed no examples
1133	 = AAAA-1111-SSSS	 = AAAA-1111-SSZZ	 = AAAA-1111-SZSZ
1313	 = AAAA-1111-SSSS	 = AAAA-1111-SSZZ	 = AAAA-1111-SZSZ
1234	 = AAAA-1212-SSSS	 = AAAA-1212-SSZZ	 = AAAA-1212-SZSZ

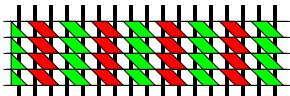
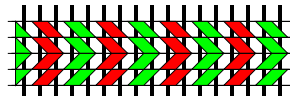
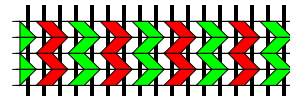
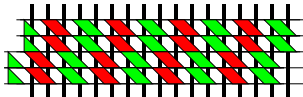
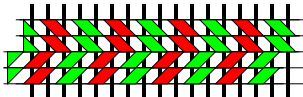
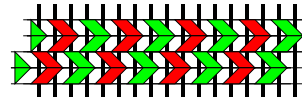
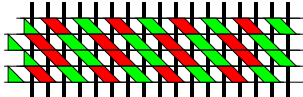
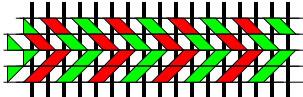
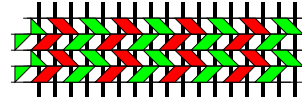
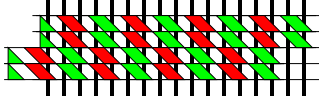
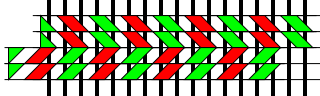
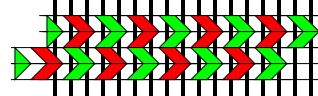
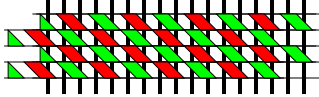
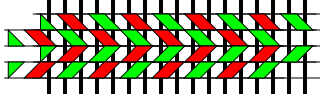
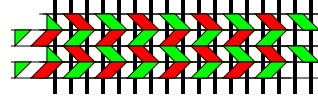
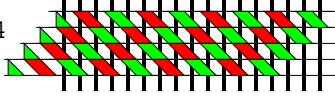
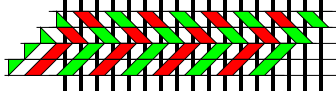
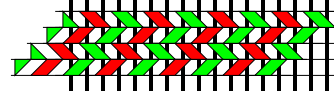
**2-AABB-ffff**

	SSSS	SSZZ	SZSZ
1111	<p>= AAAA-1122-SSSS</p>	<p>= AAAA-1122-SSZZ</p>	<p>= AAAA-1122-SZSZ</p>
1122	<p>= AAAA-1111-SSSS</p>	<p>= AAAA-1111-SSZZ</p>	<p>= AAAA-1111-SZSZ</p>
1212	<p>= AAAA-1221-SSSS</p>	<p>unnamed no examples</p>	<p>unnamed no examples</p>
1133	<p>= AAAA-1122-SSSS</p>	<p>= AAAA-1122-SSZZ</p>	<p>= AAAA-1122-SZSZ</p>
1313	<p>= AAAA-1122-SSSS</p>	<p>= AAAA-1122-SSZZ</p>	<p>= AAAA-1122-SZSZ</p>
1234	<p>= AAAA-1221-SSSS</p>	<p>= AAAA-1221-SSZZ</p>	<p>= AAAA-1221-SZSZ</p>

**2-ABAB-ffff**

	SSSS	SSZZ	SZSZ
1111	 <p>= AAAA-1212-SSSS</p>	 <p>= AAAA-1212-SSZZ</p>	 <p>= AAAA-1212-SZSZ</p>
1122	 <p>= AAAA-1221-SSSS</p>	 <p>= AAAA-1221-SSZZ</p>	 <p>= AAAA-1221-SZSZ</p>
1212	 <p>= AAAA-1111-SSSS</p>	 <p>= AAAA-1111-SSZZ</p>	 <p>= AAAA-1111-SZSZ</p>
1133	 <p>= AAAA-1212-SSSS</p>	 <p>= AAAA-1212-SSZZ</p>	 <p>= AAAA-1212-SZSZ</p>
1313	 <p>= AAAA-1212-SSSS</p>	 <p>= AAAA-1212-SSZZ</p>	 <p>= AAAA-1212-SZSZ</p>
1234	 <p>= AAAA-1111-SSSS</p>	 <p>= AAAA-1111-SSZZ</p>	 <p>= AAAA-1111-SZSZ</p>

**2-BBBB-ffff**

	SSSS	SSZZ	SZSZ
1111	 = AAAA-2222-SSSS	 = AAAA-2222-SSZZ	 = AAAA-2222-SZSZ
1122	 = AAAA-2211-SSSS	 = AAAA-2211-SSZZ	 = AAAA-2211-SZSZ
1212	 = AAAA-2121-SSSS	 = AAAA-2121-SSZZ	 = AAAA-2121-SZSZ
1133	 = AAAA-2211-SSSS	 = AAAA-2211-SSZZ	 = AAAA-2211-SZSZ
1313	 = AAAA-1111-SSSS	 = AAAA-1111-SSZZ	 = AAAA-1111-SZSZ
1234	 = AAAA-2121-SSSS	 = AAAA-2121-SSZZ	 = AAAA-2121-SZSZ

4-ffff

