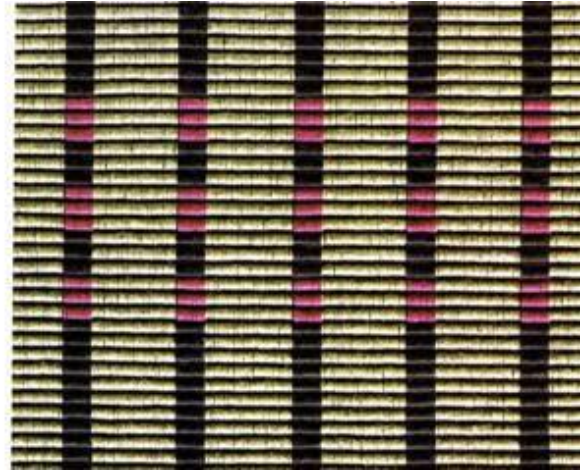
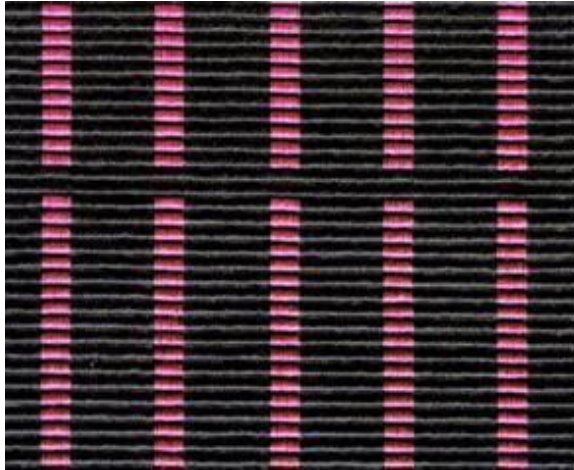




**KANGATEHNIKAD**  
**I Ühekordsed kangad**  
**LIHTKANGAD**  
**b. Tuletatud kangad**



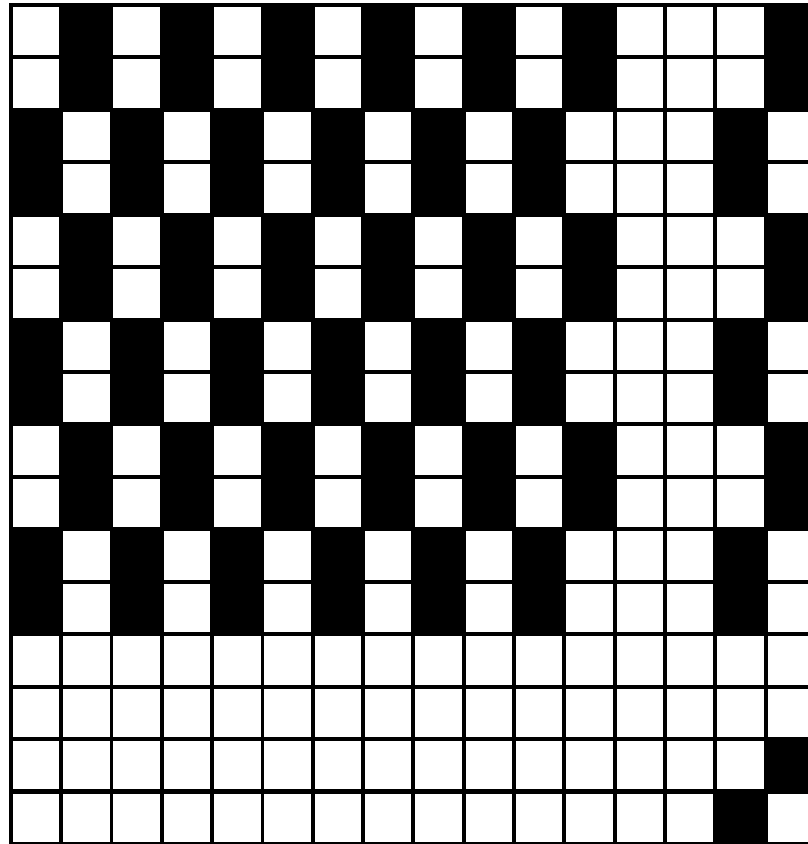
# Lõimerips



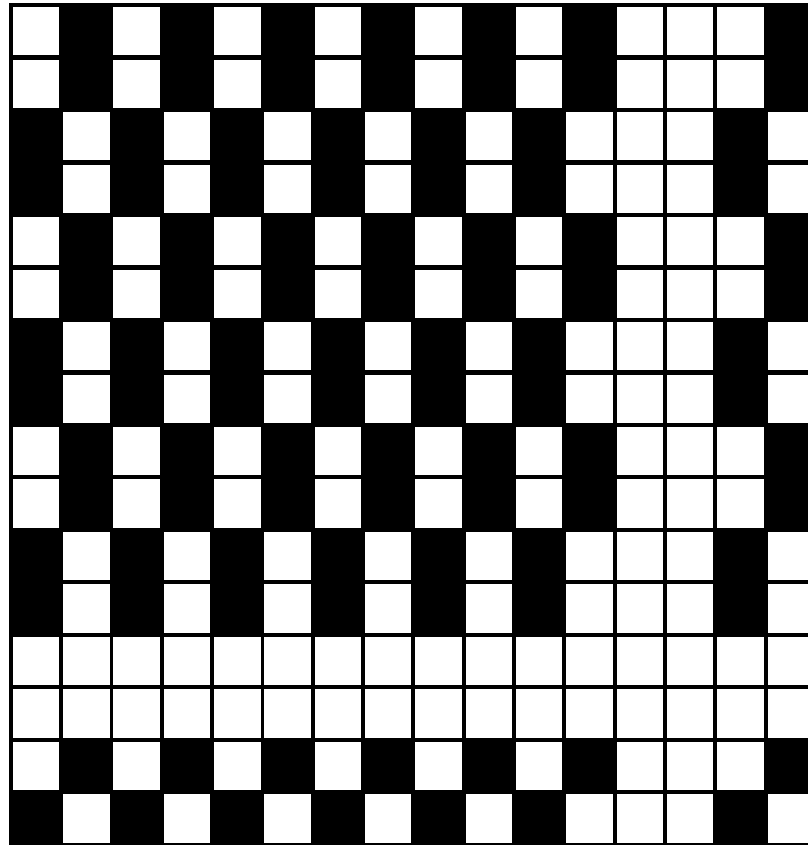
# Lõimerips



# Lõimerips

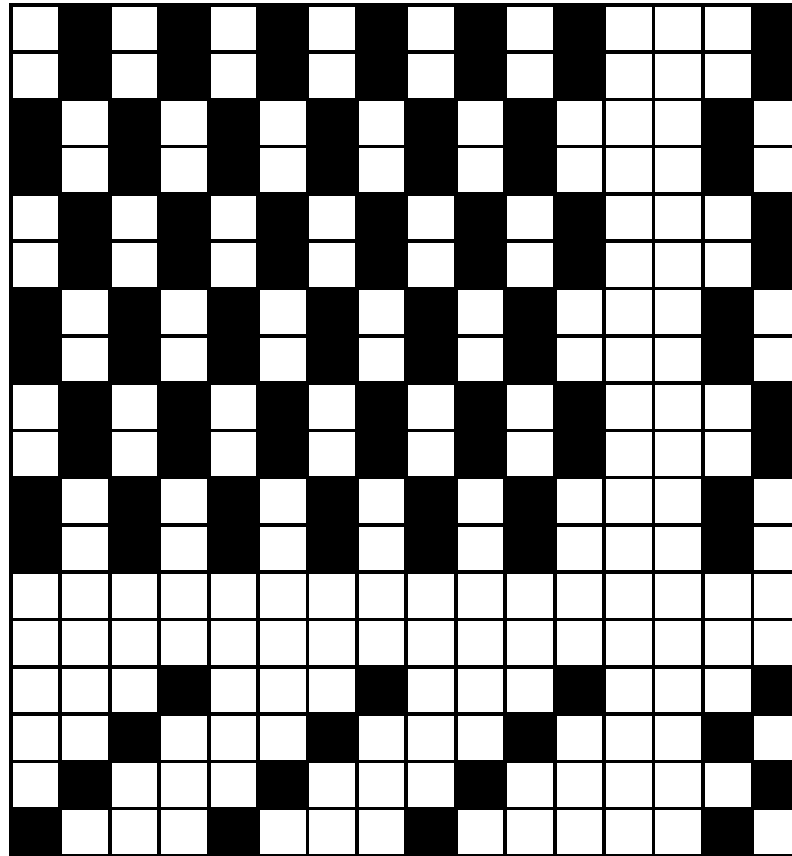


# Lõimerips





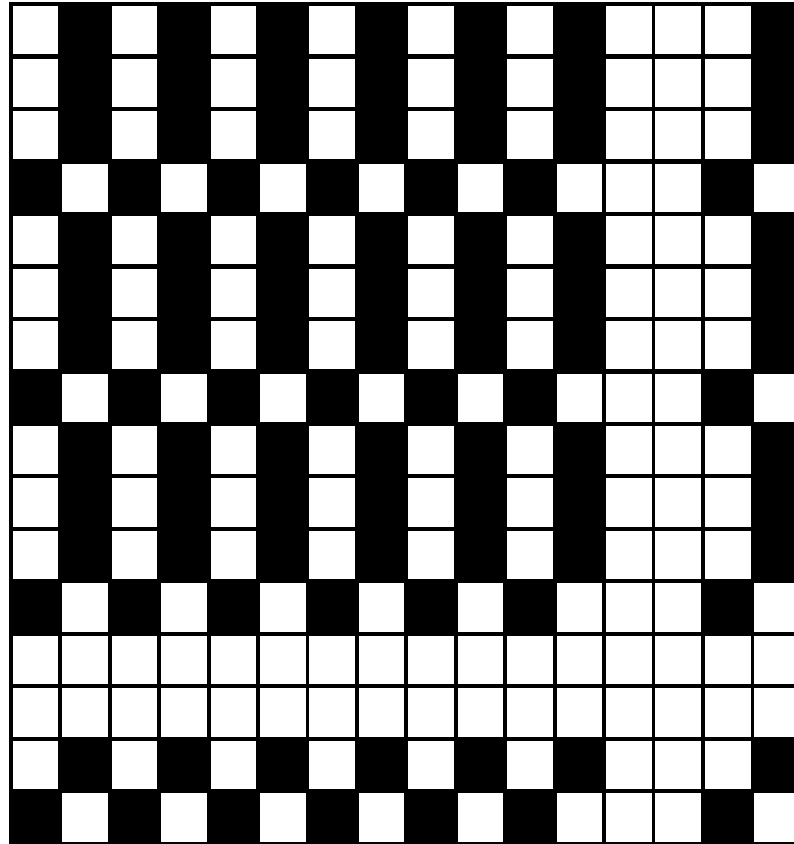
# Lõimerips 4-jal niieraamil





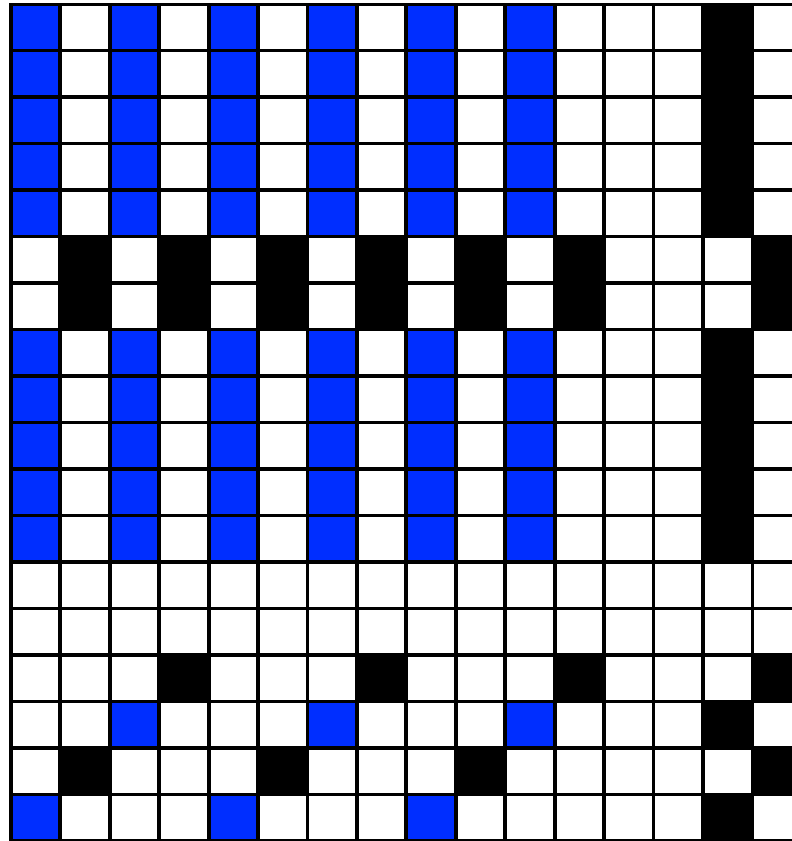


# Lõimerips

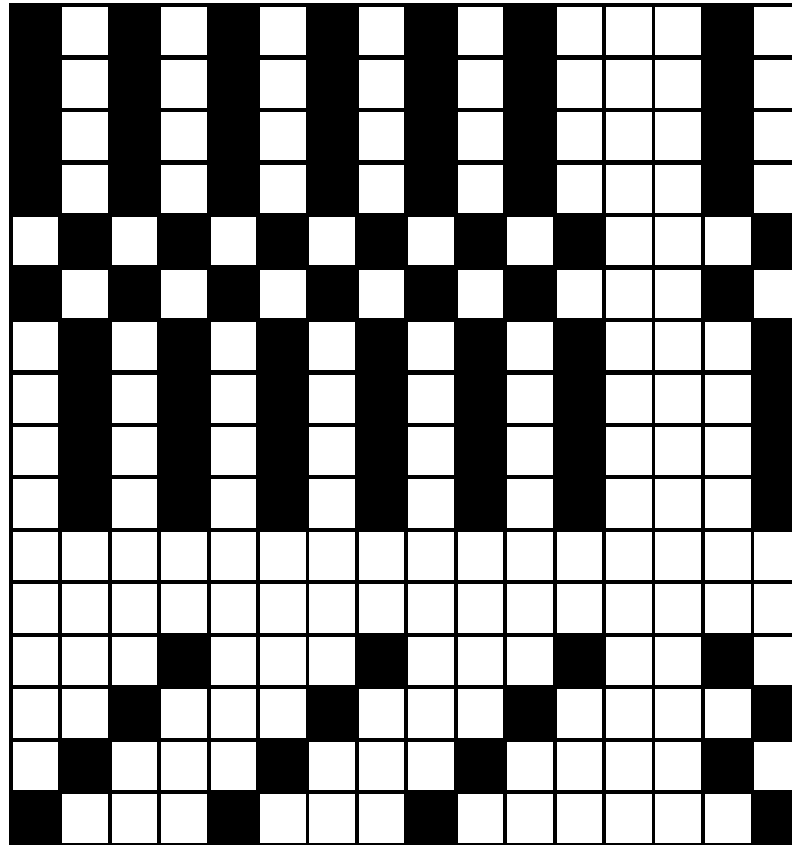




# Lõimerips

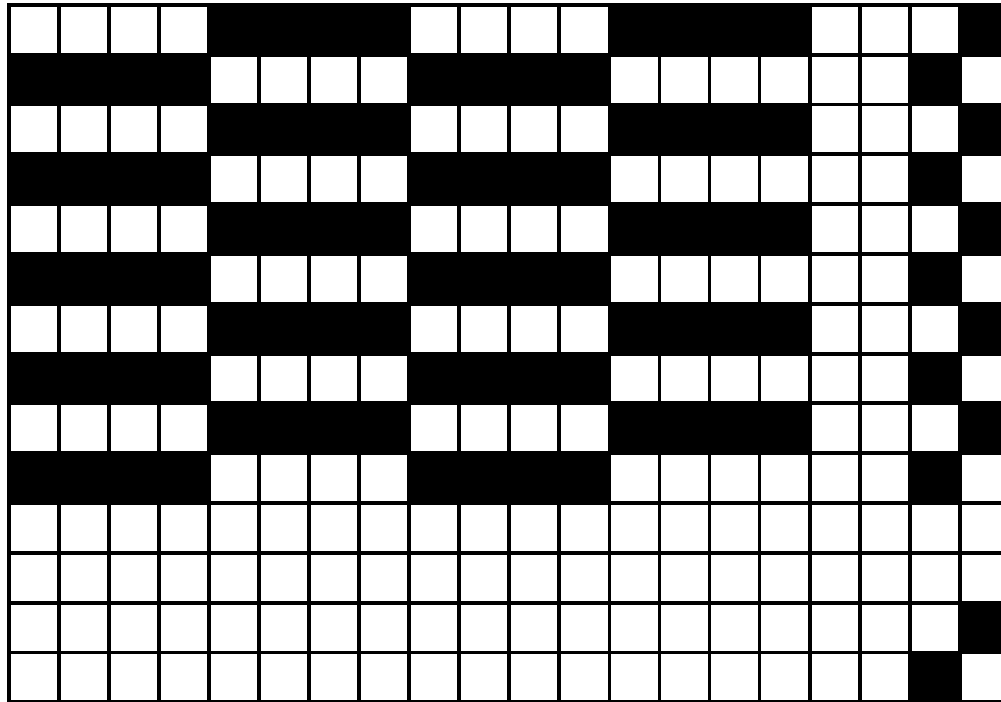


# Ottoman

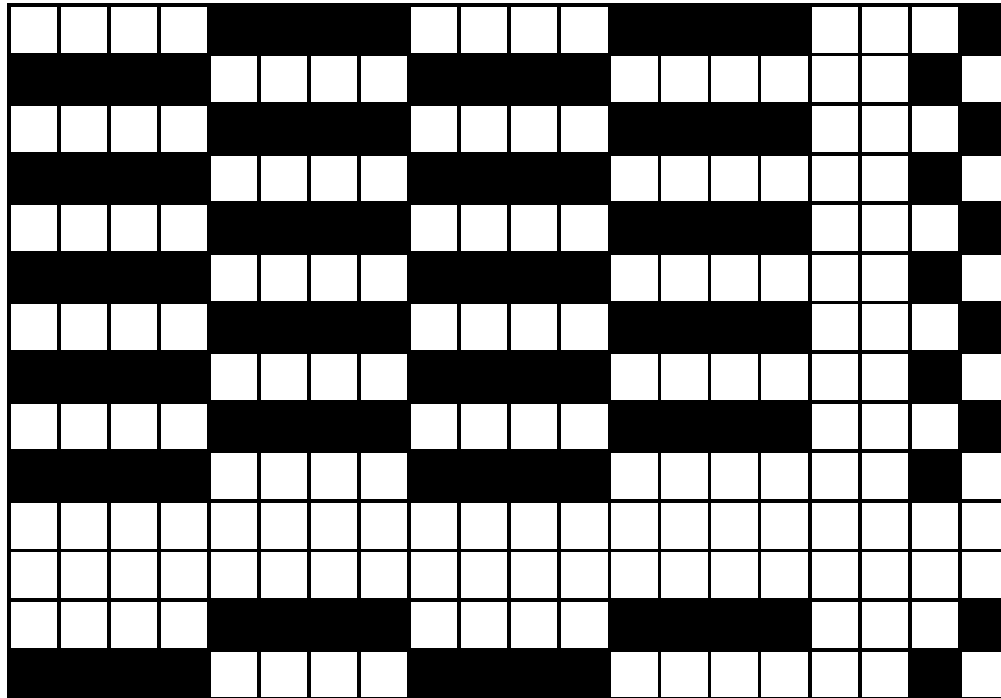




# Koerips

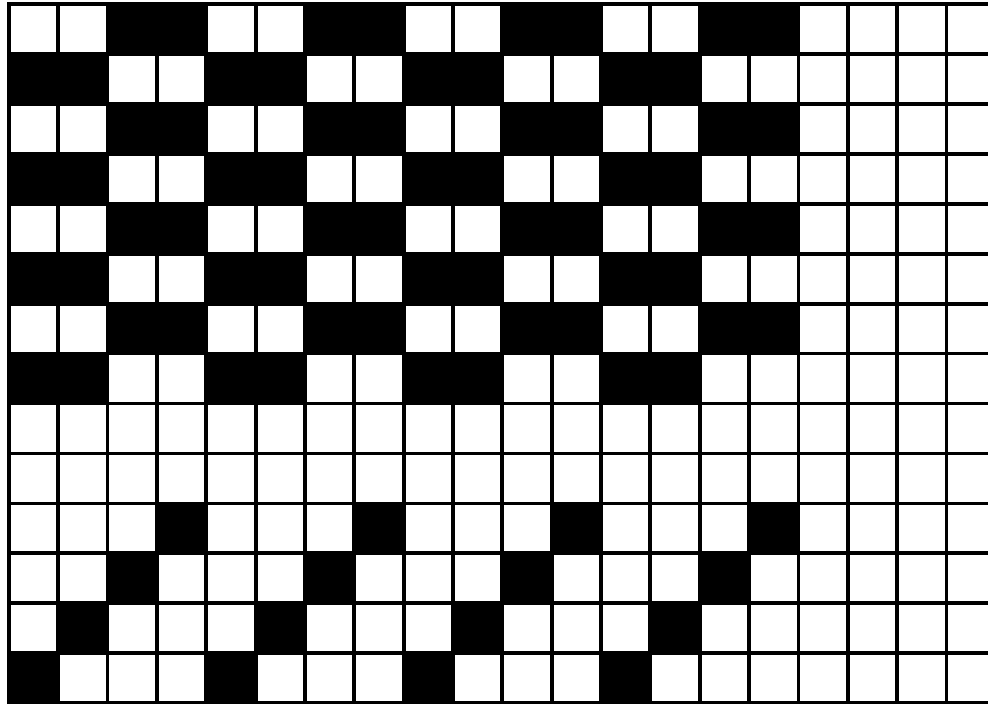


# Koerips

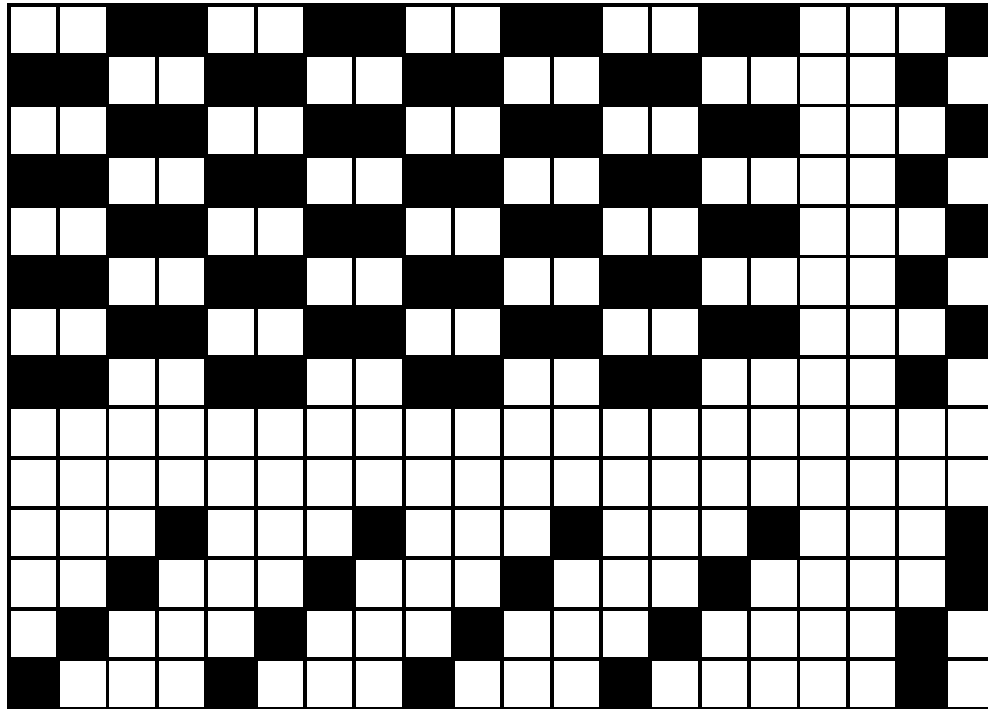




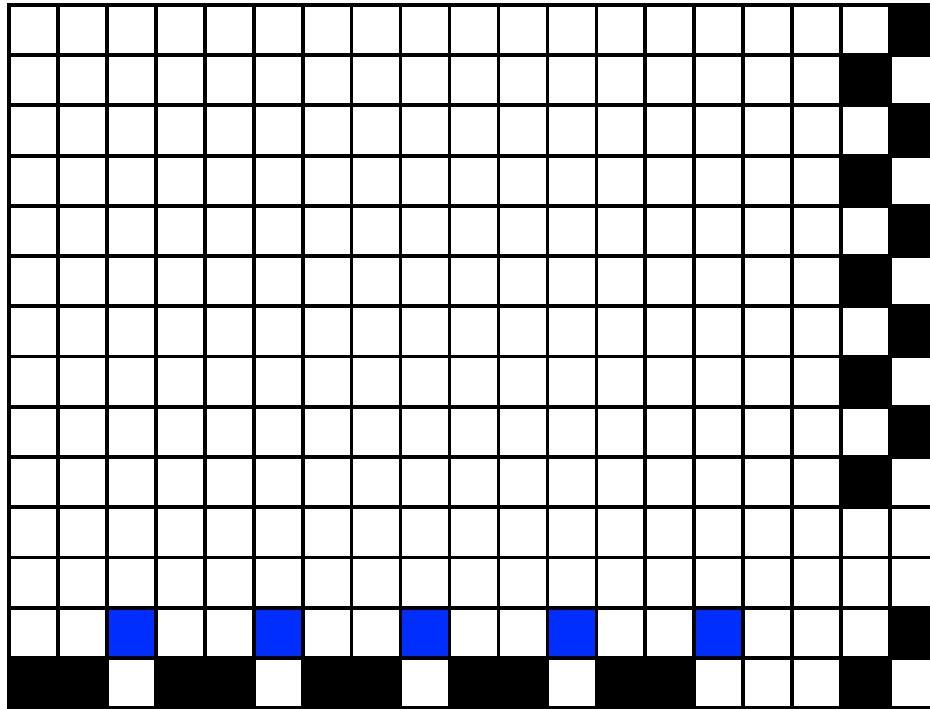
# Koerips



# Koerips



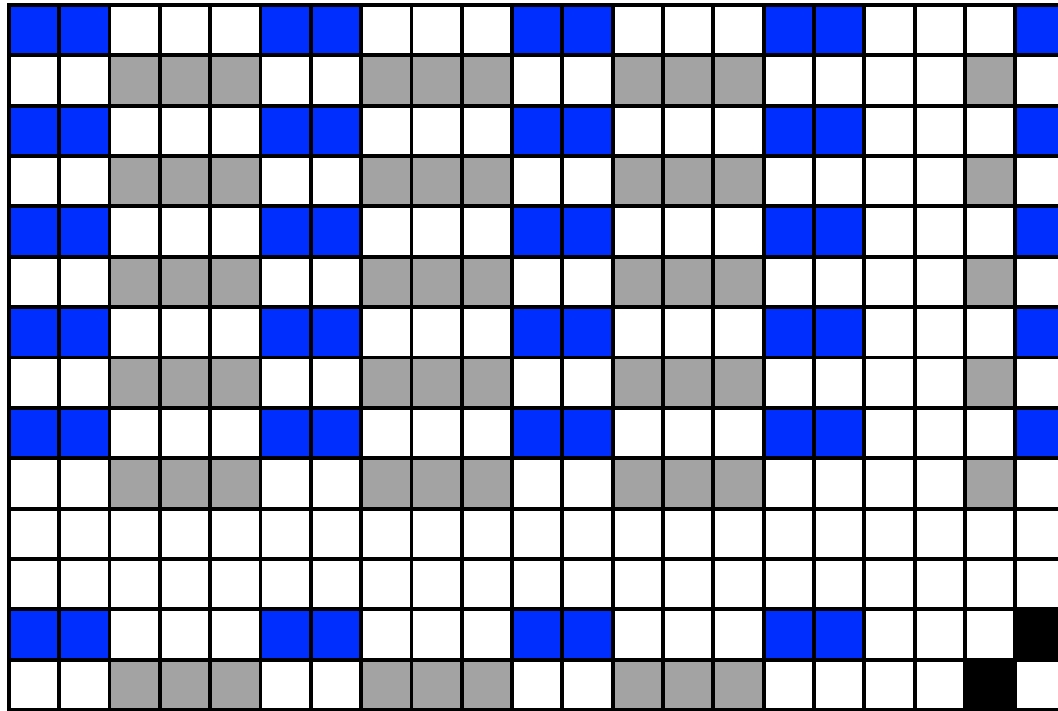
# Koerips



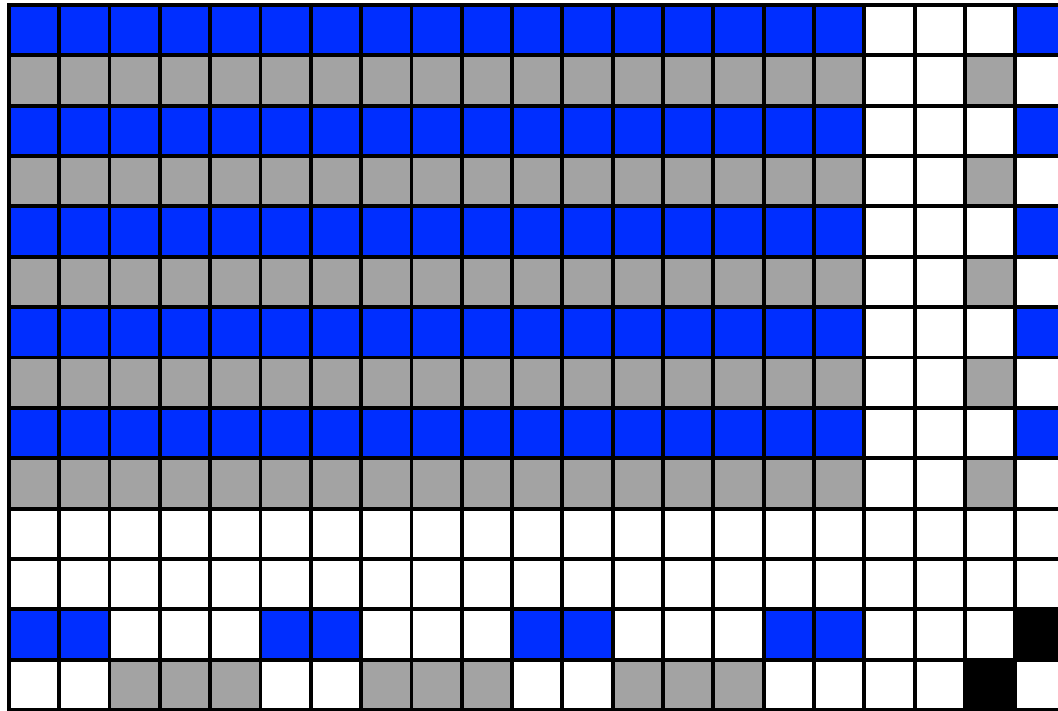




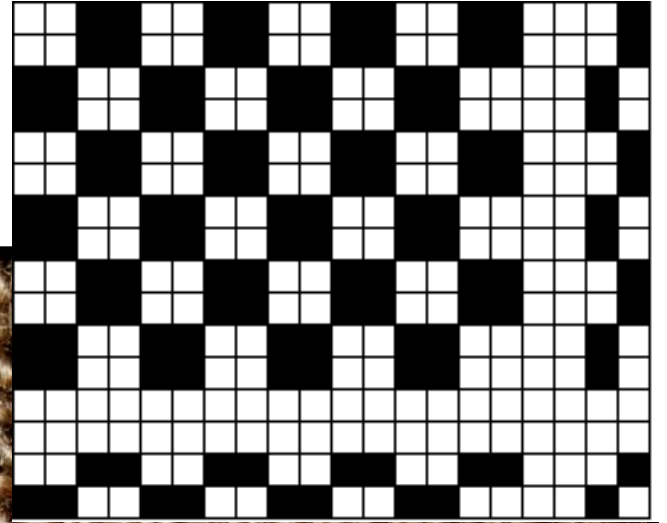
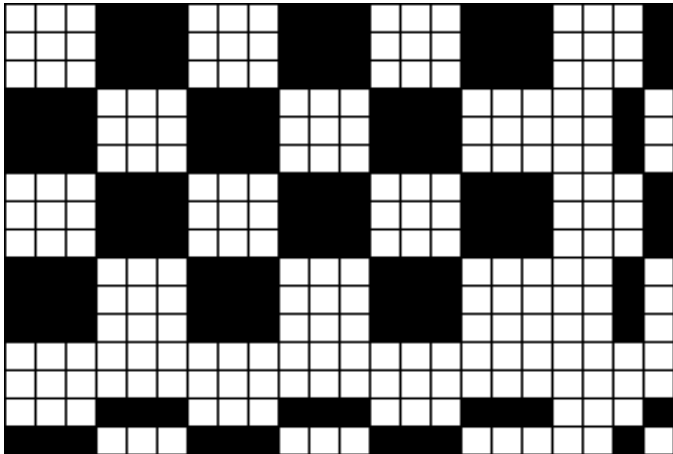
# Koerips



# Koerips

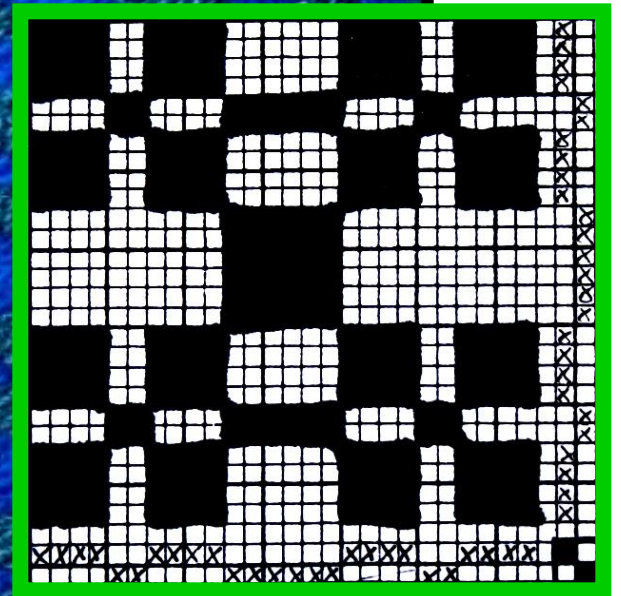
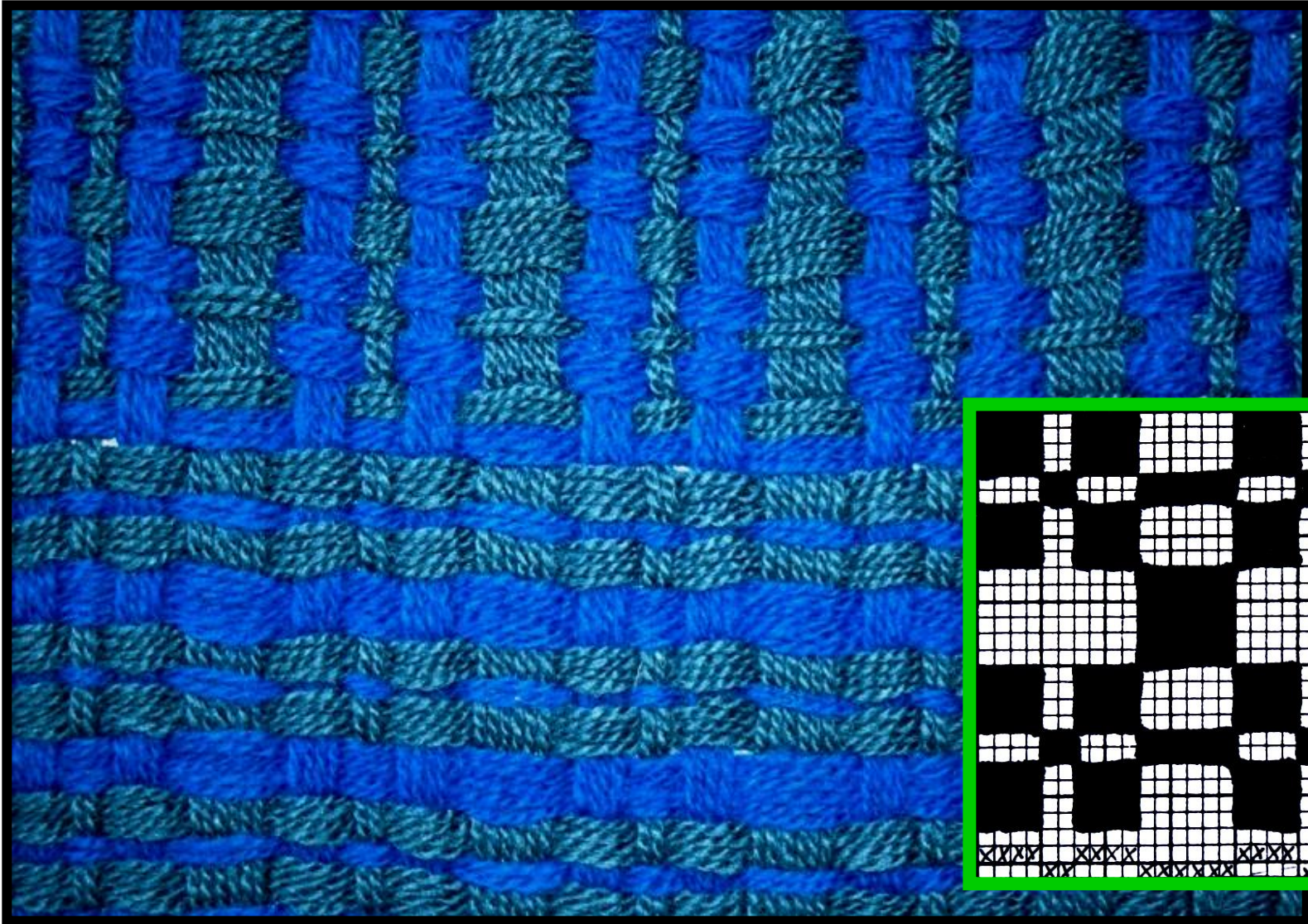


# Panama

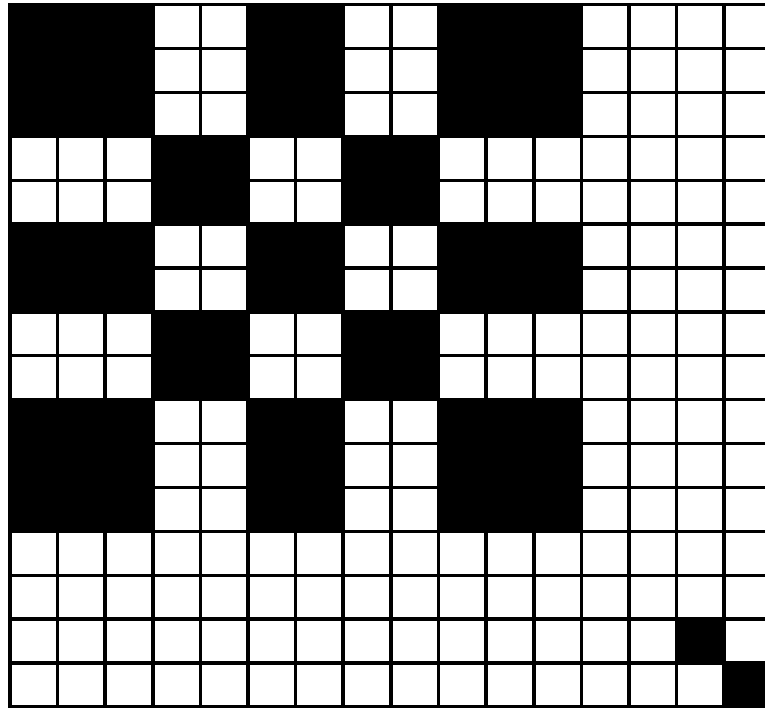




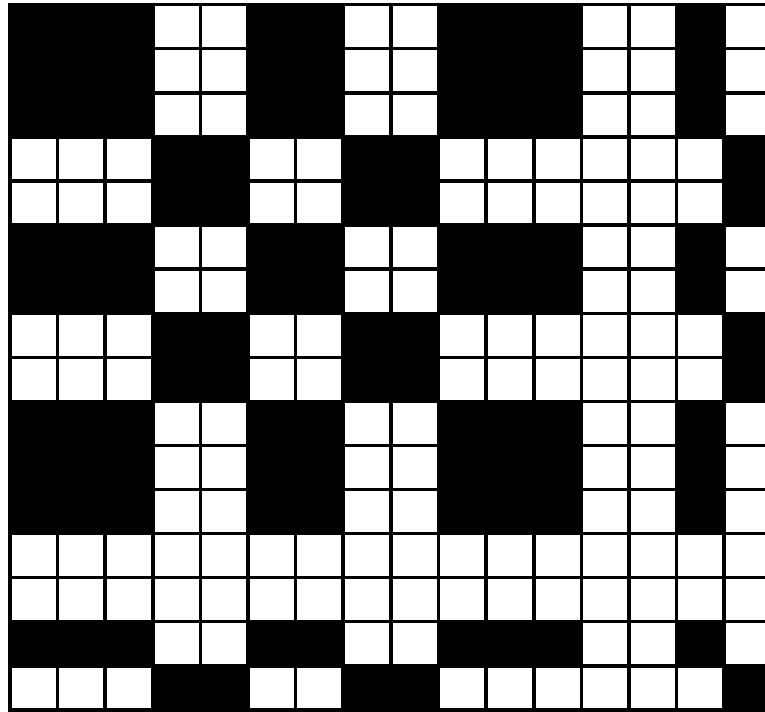
# Panama



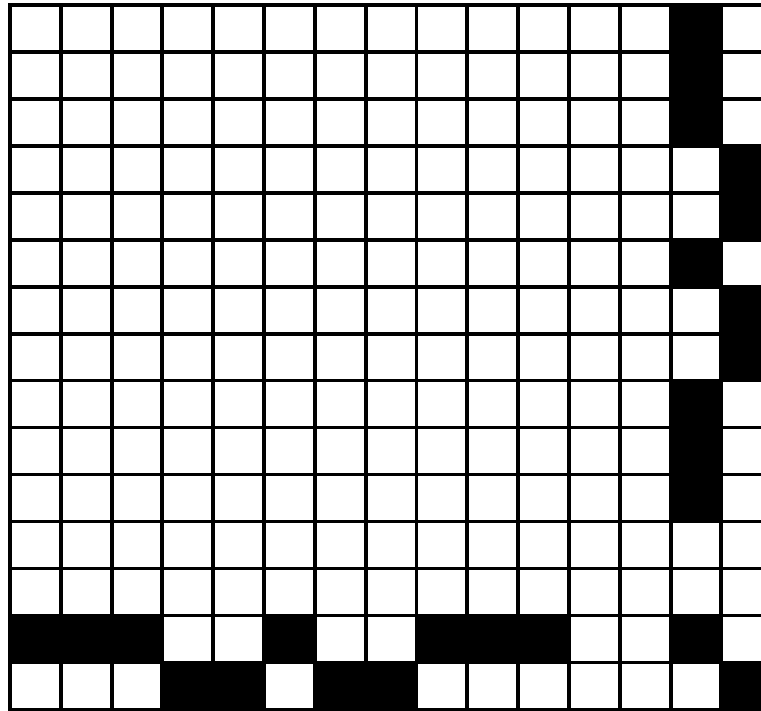
# Panama



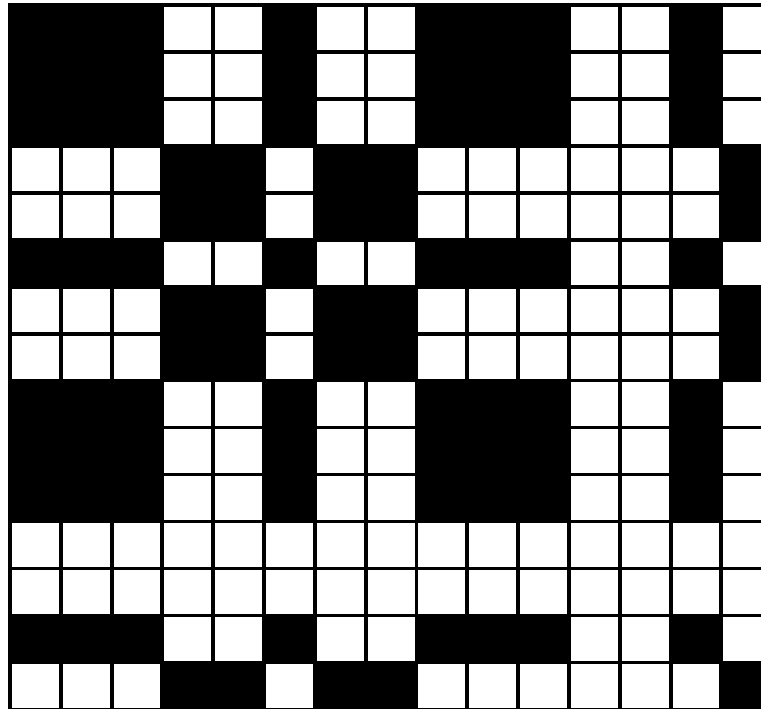
# Panama



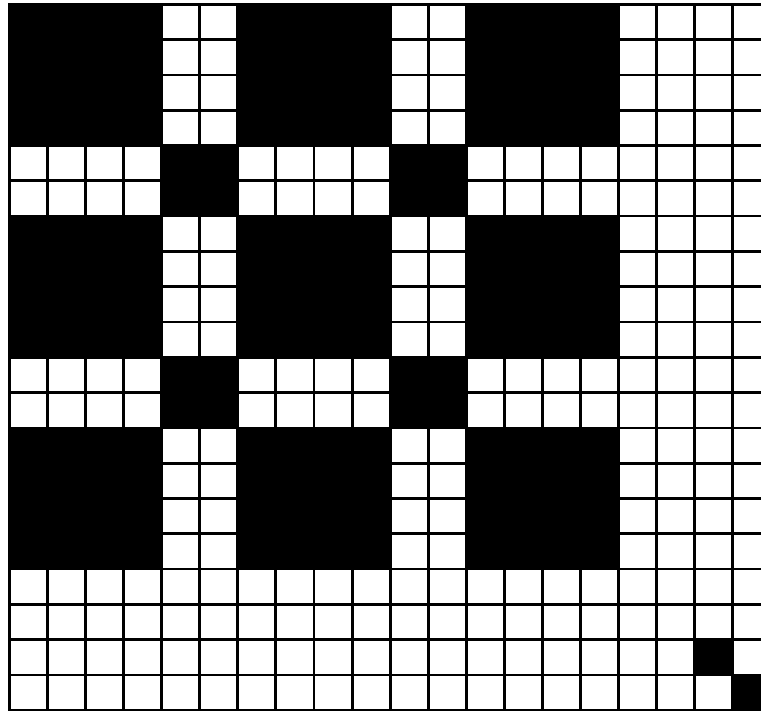
# Panama



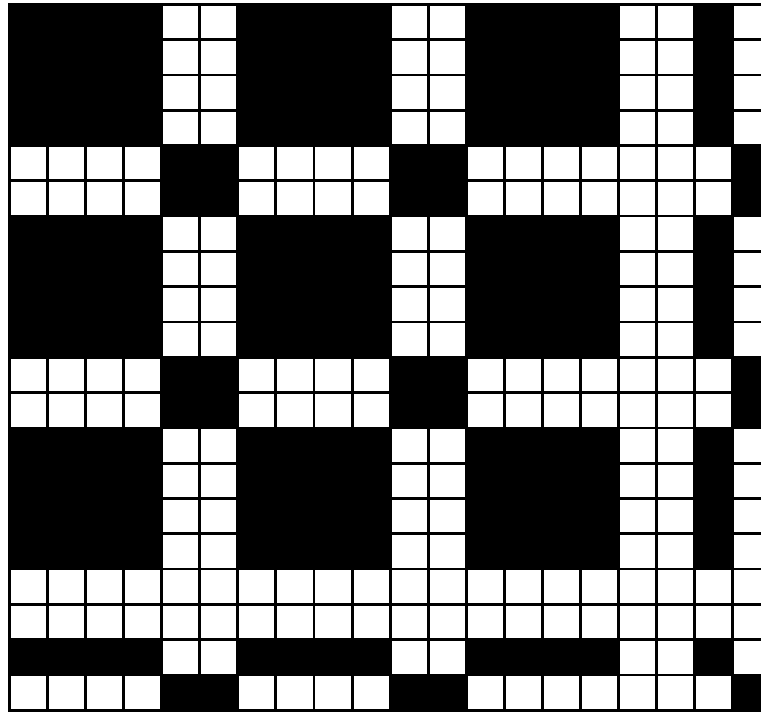
# Panama



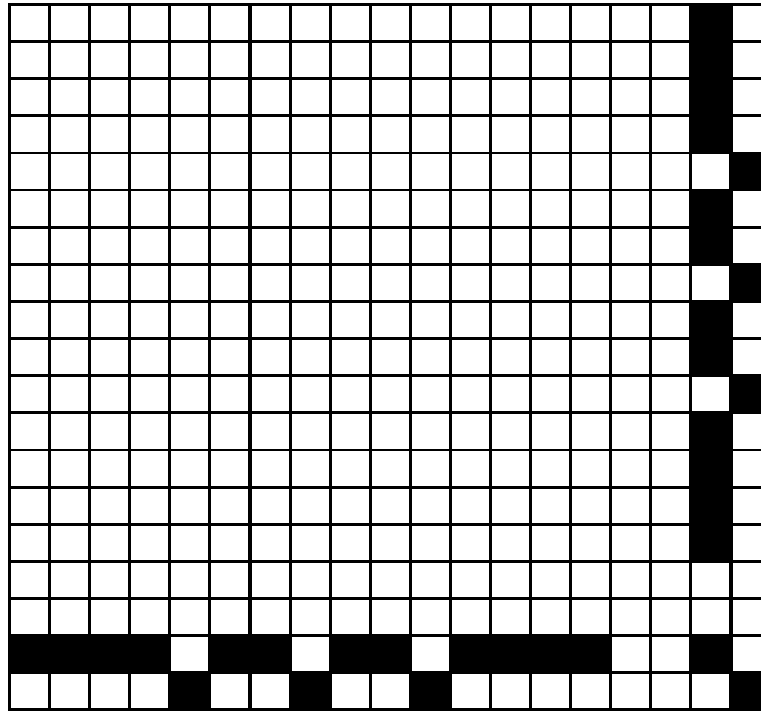
# Panama



# Panama



# Panama

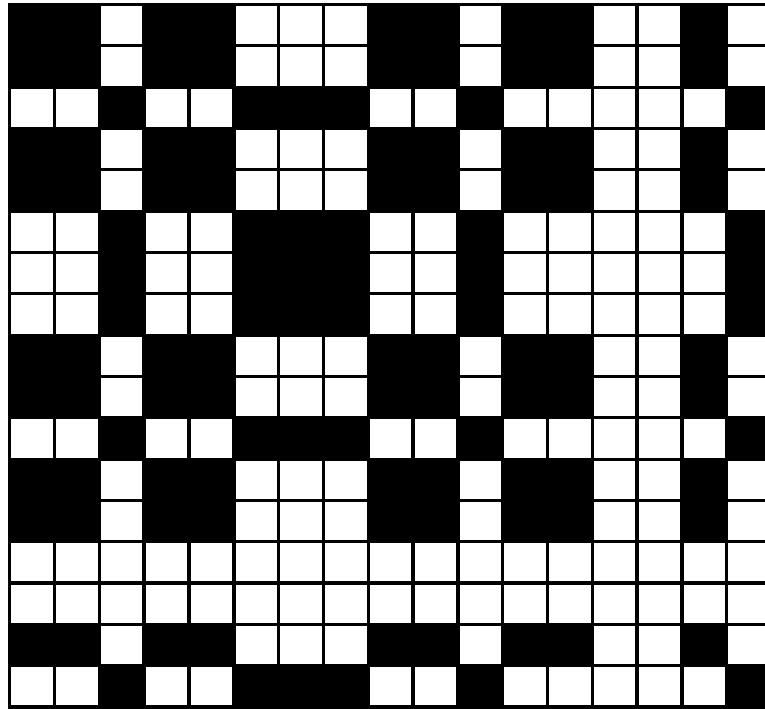






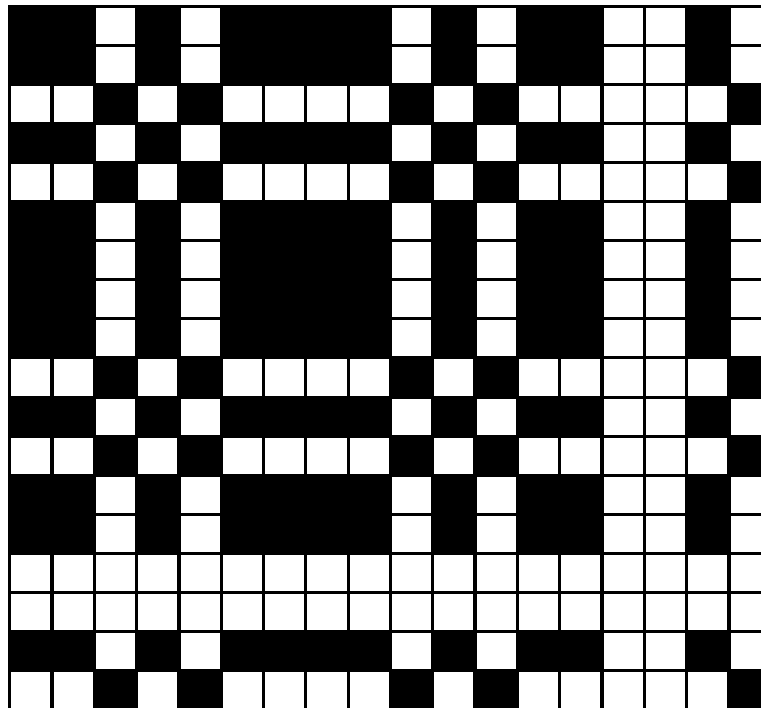


# Panama

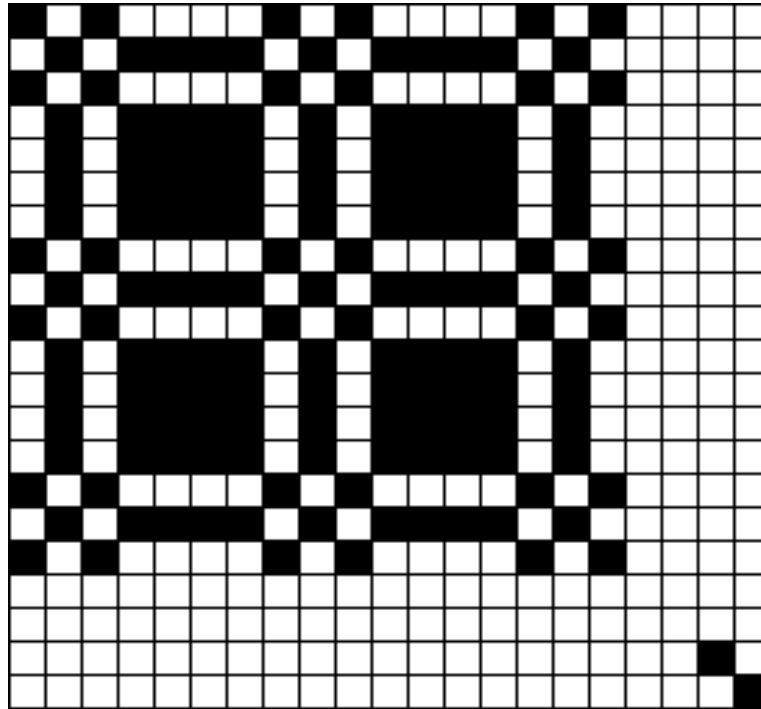




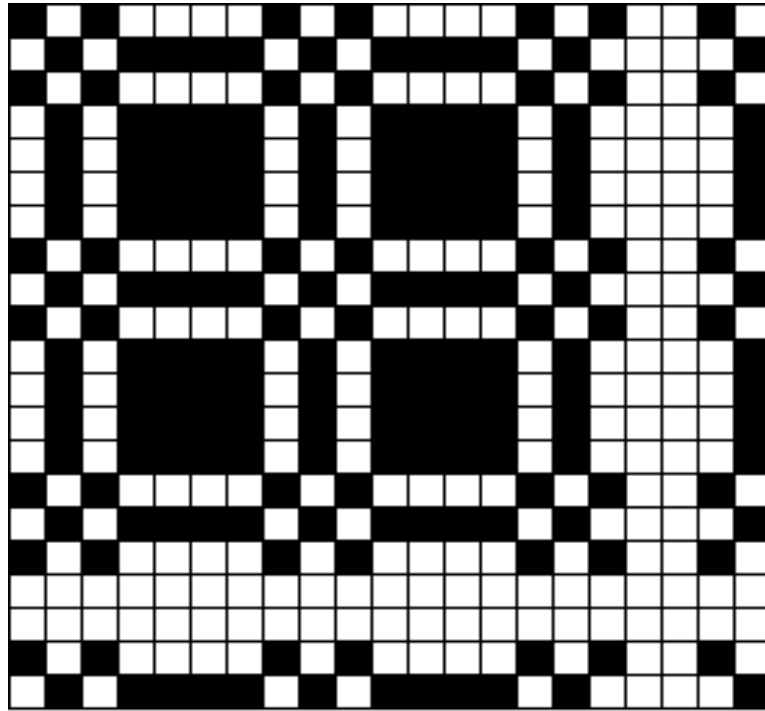
# Panama



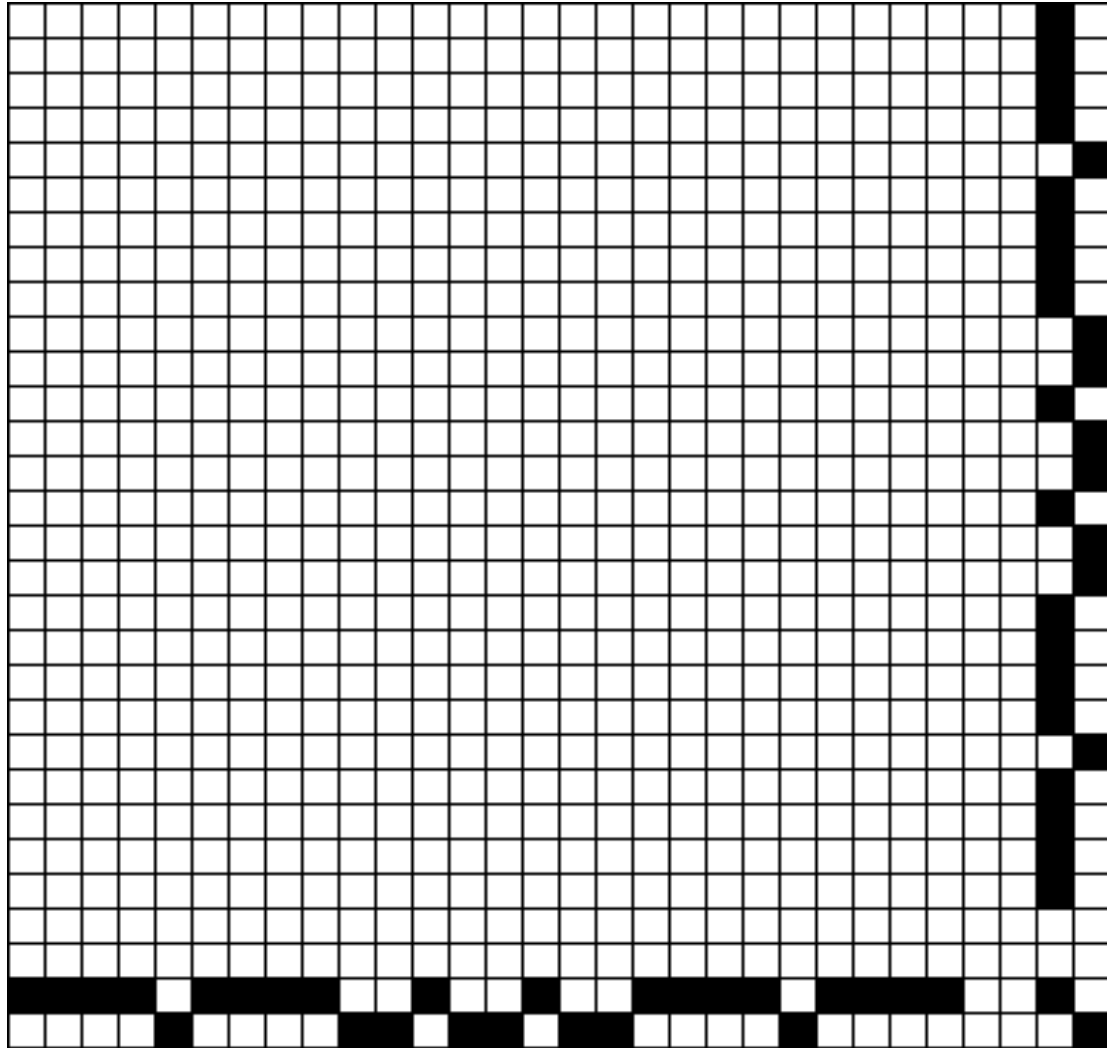
# Panama



# Panama

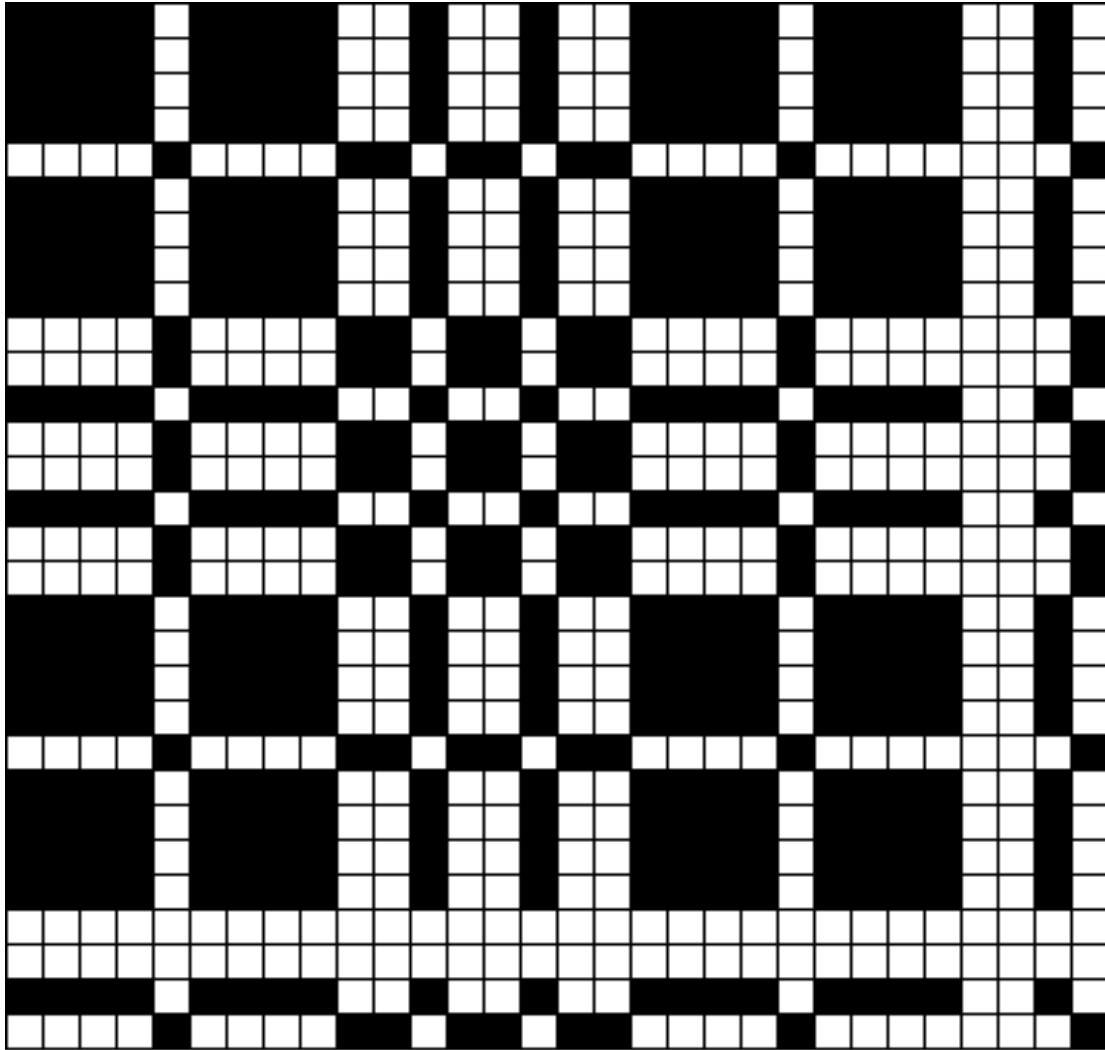


# Panama



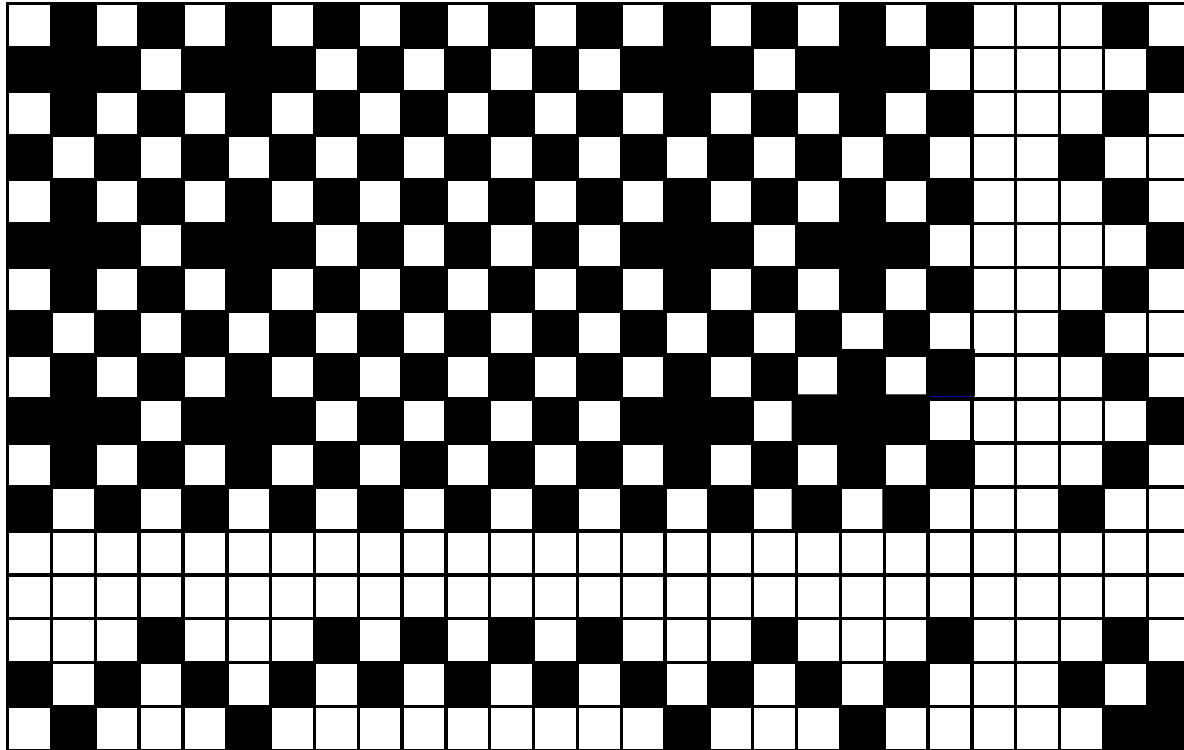


# Panama

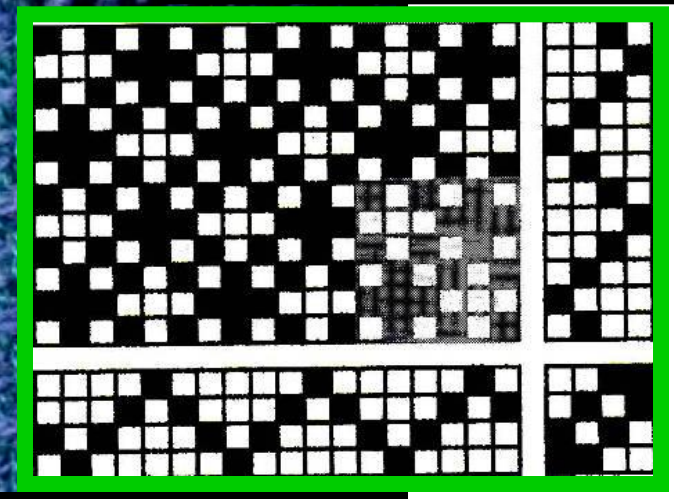
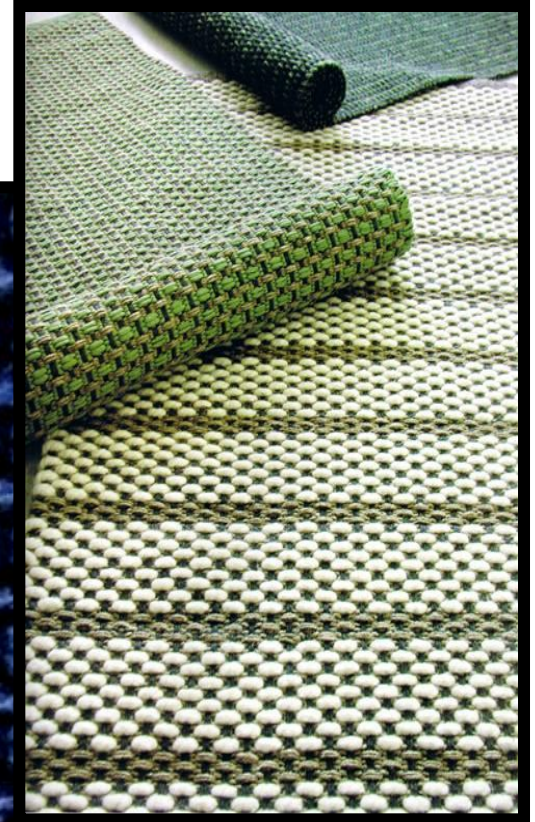
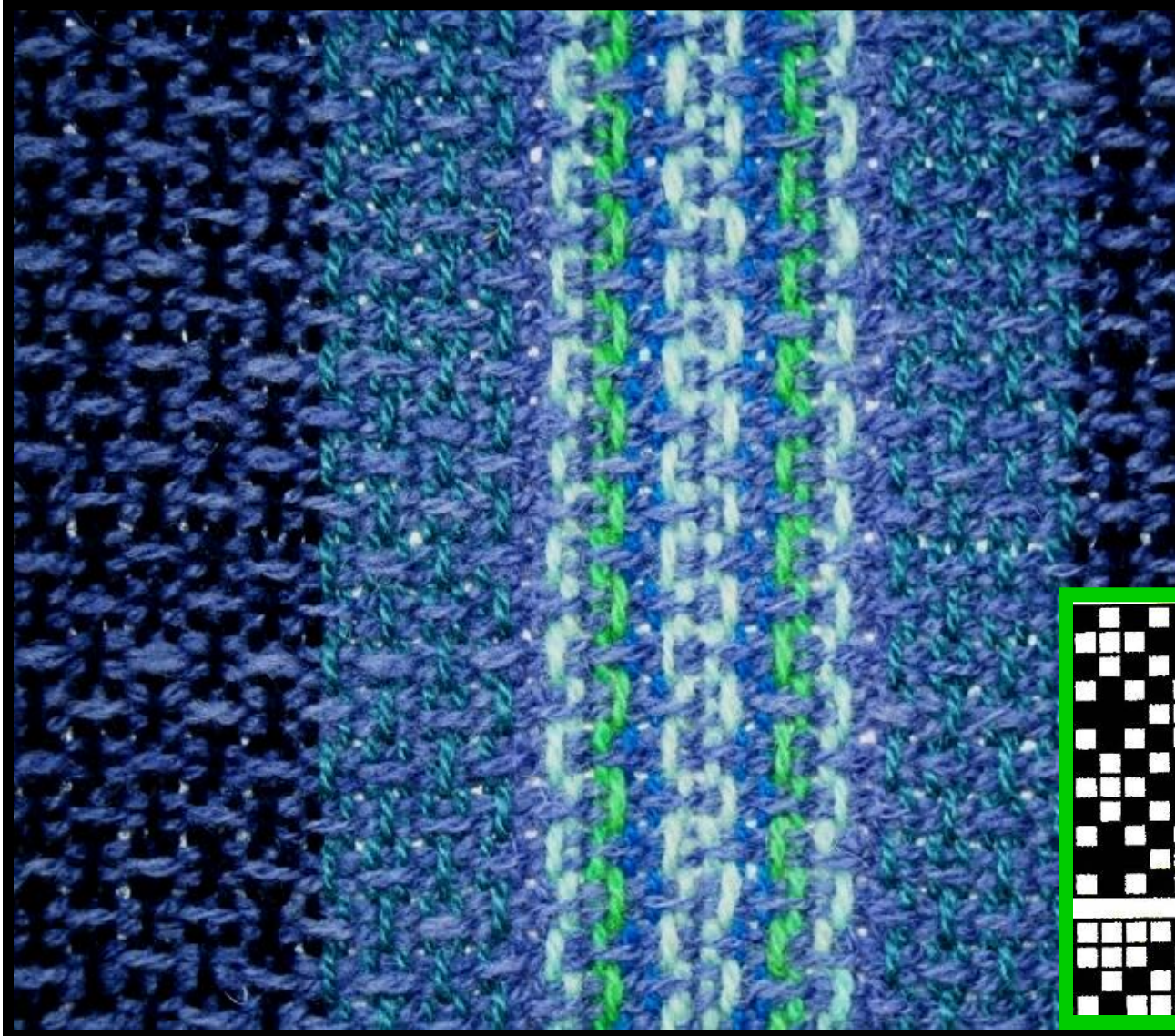




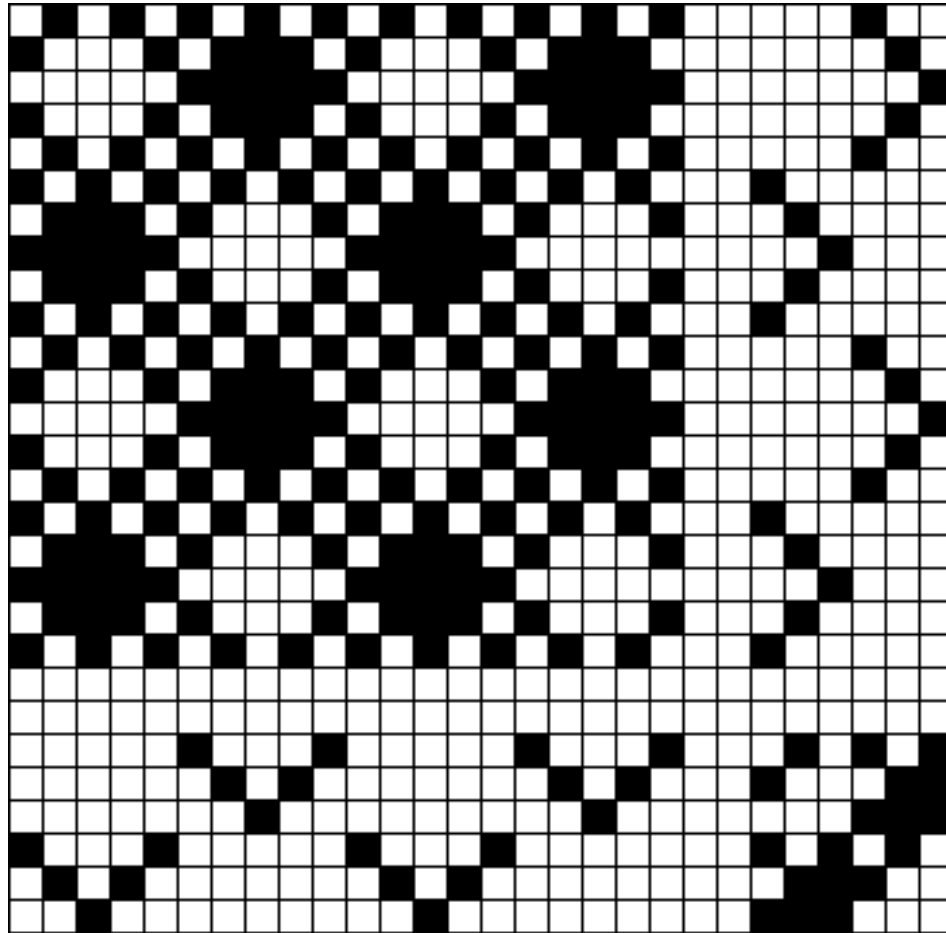
# Piketriibuline kanvaa



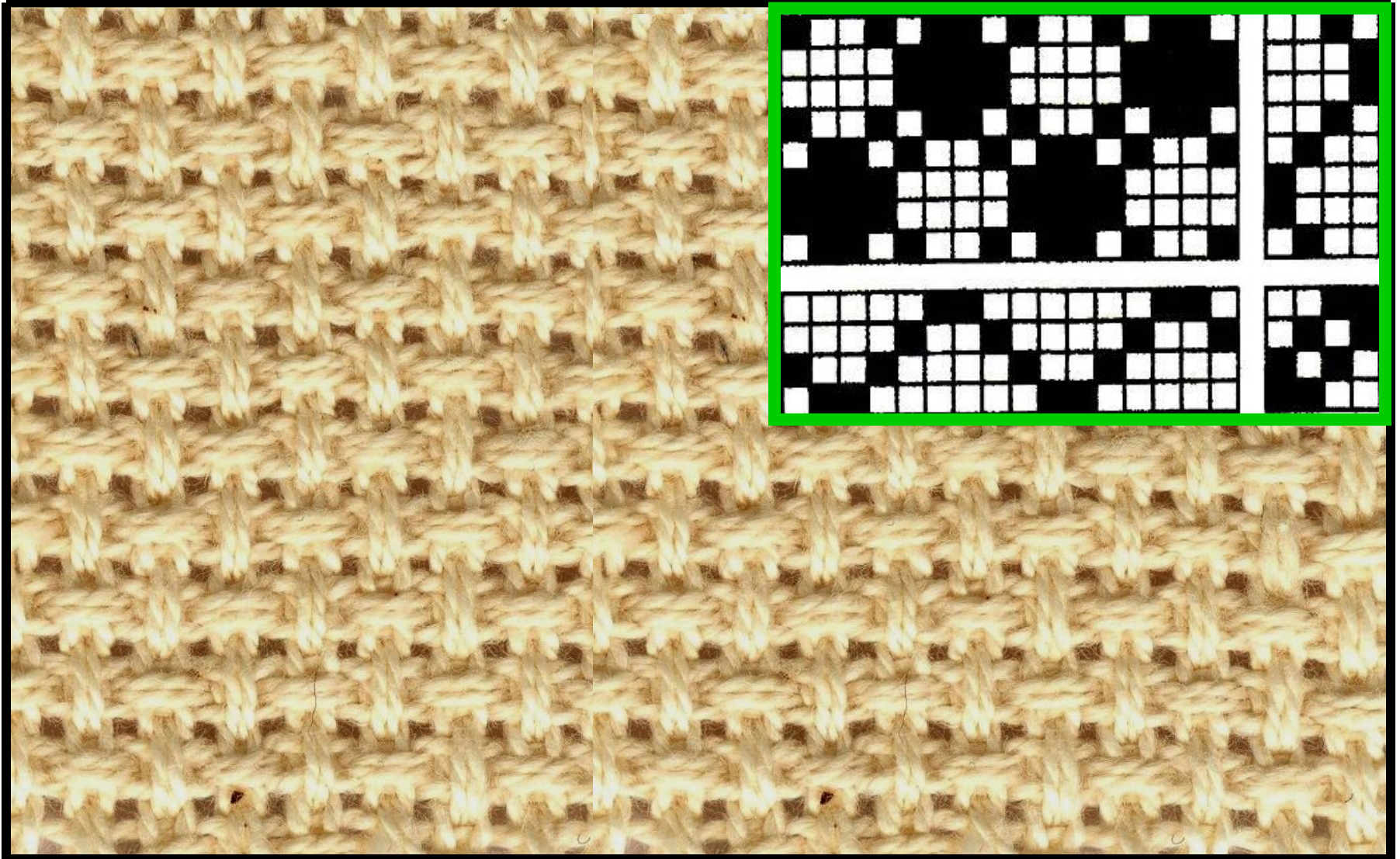
# 2-rühmaline kanvaa



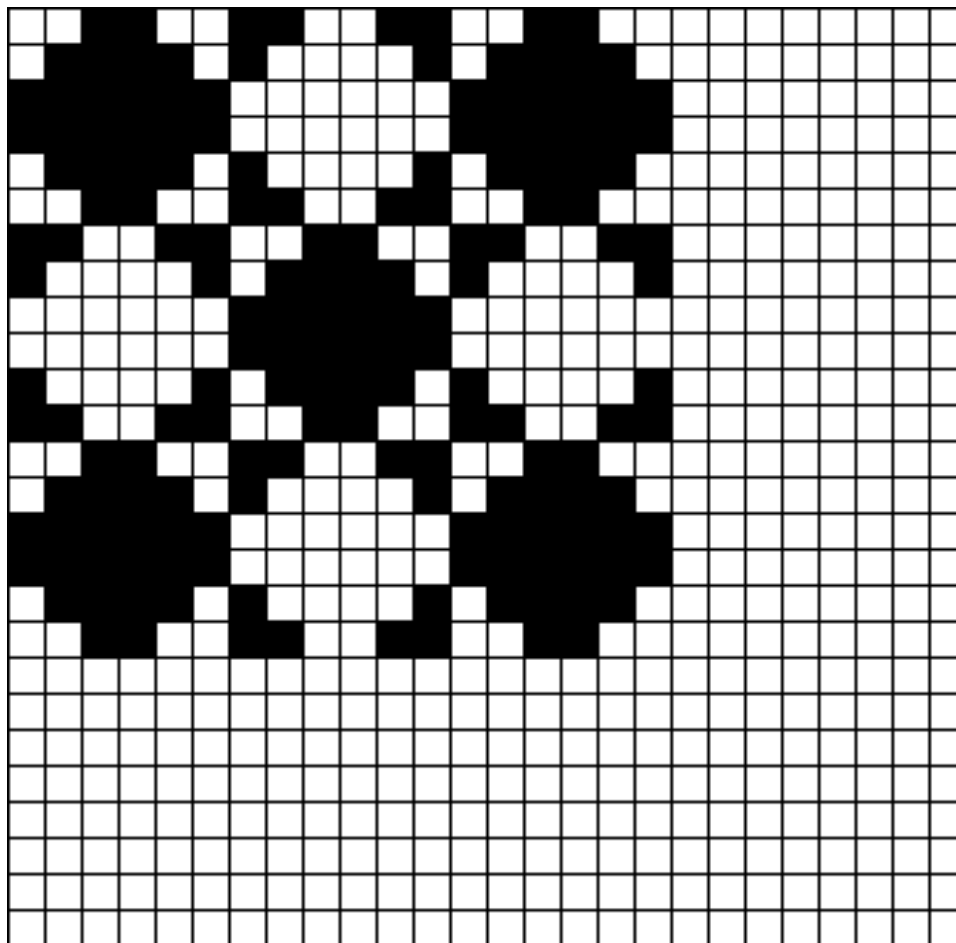
# Kanvaa



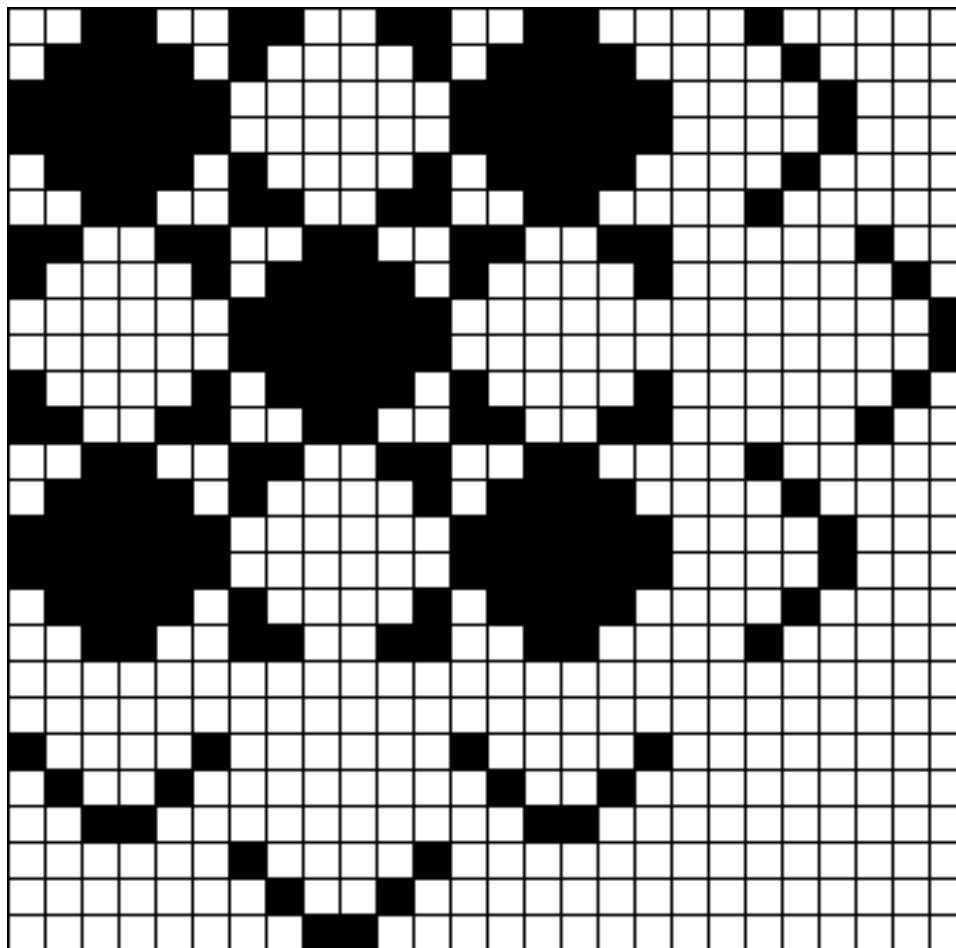
# Neljalõngalise rühmaga kanvaa ehk *džuut*



# Džuut

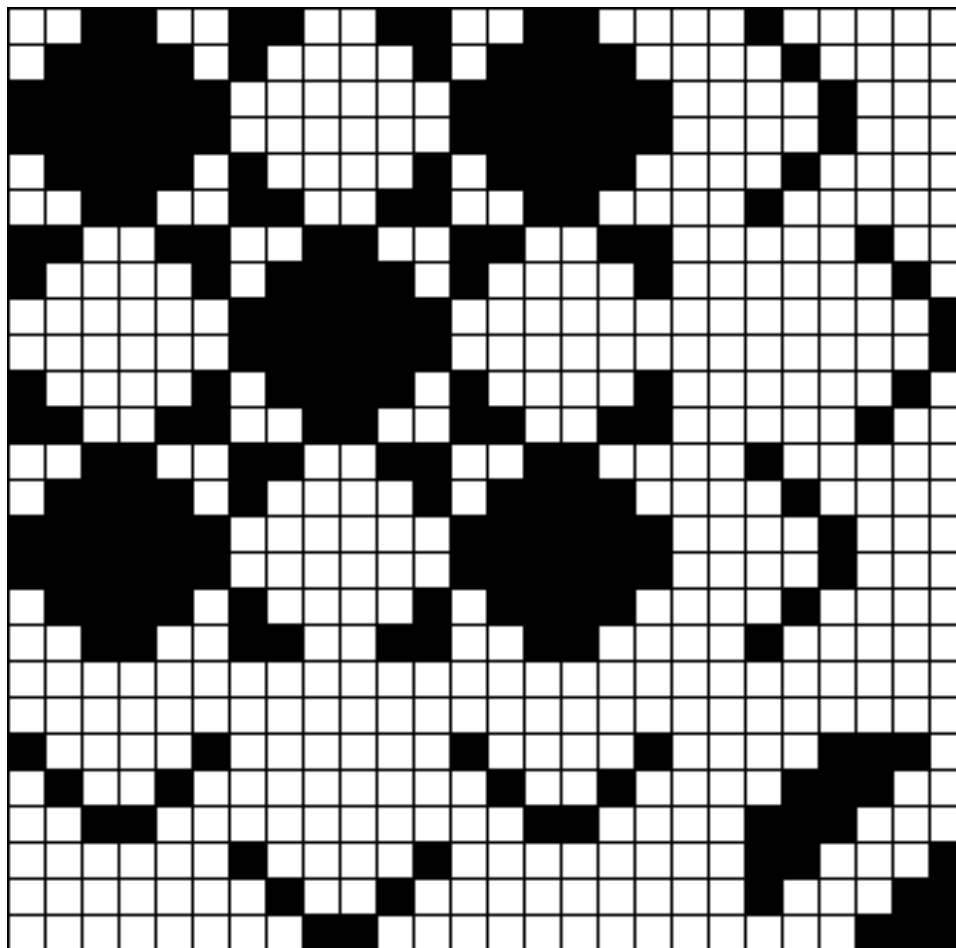


# Džuut

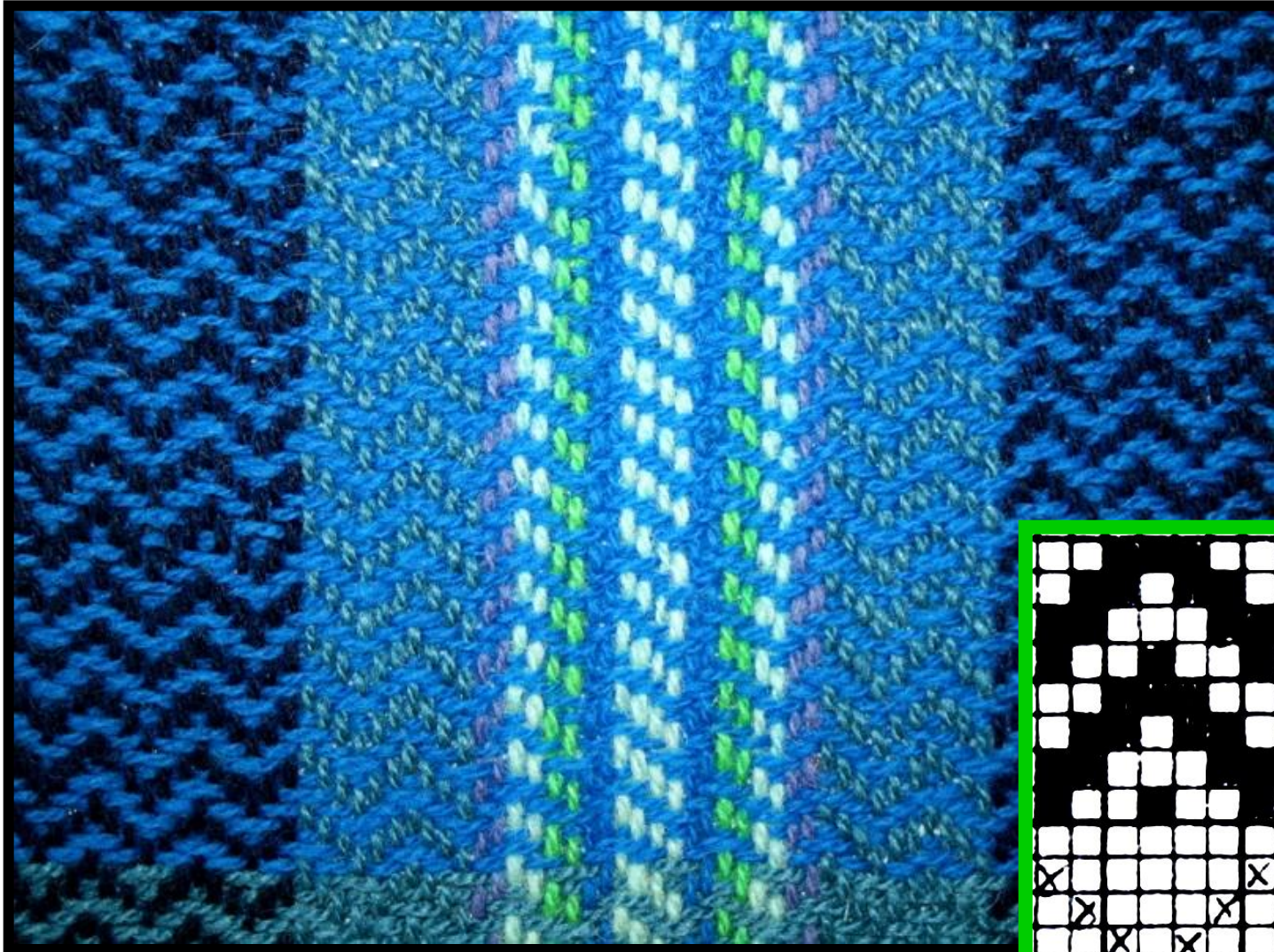




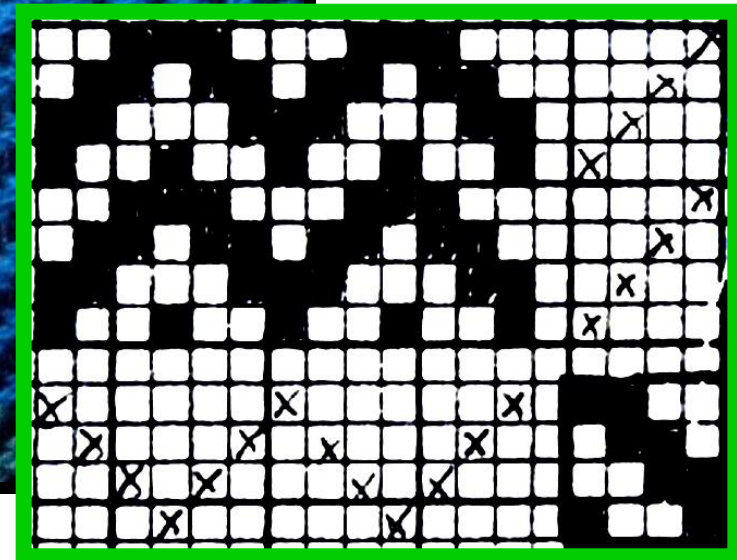
# Džuut



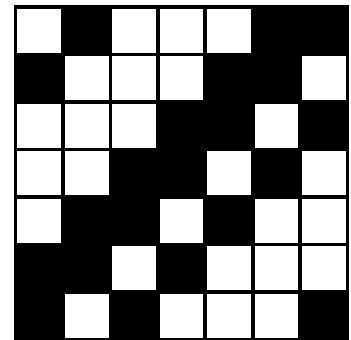
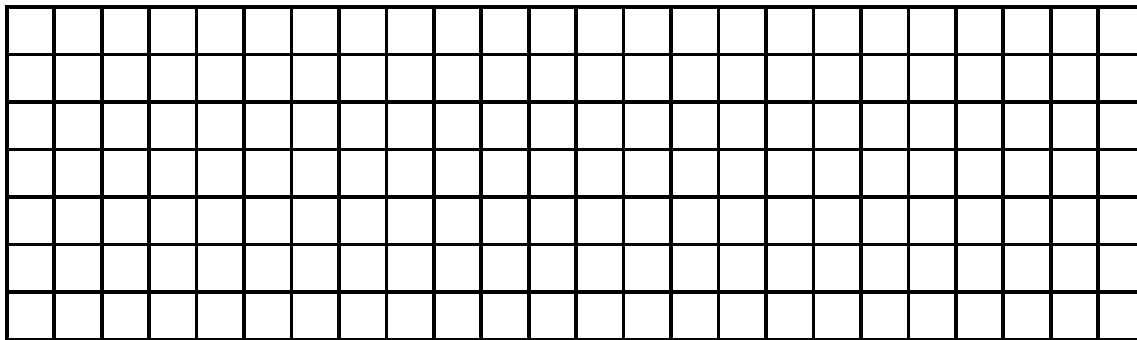
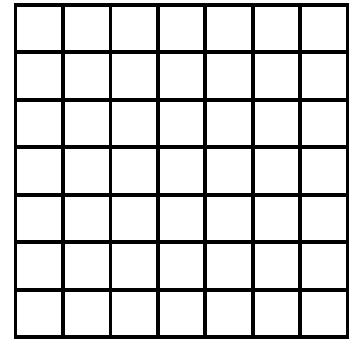
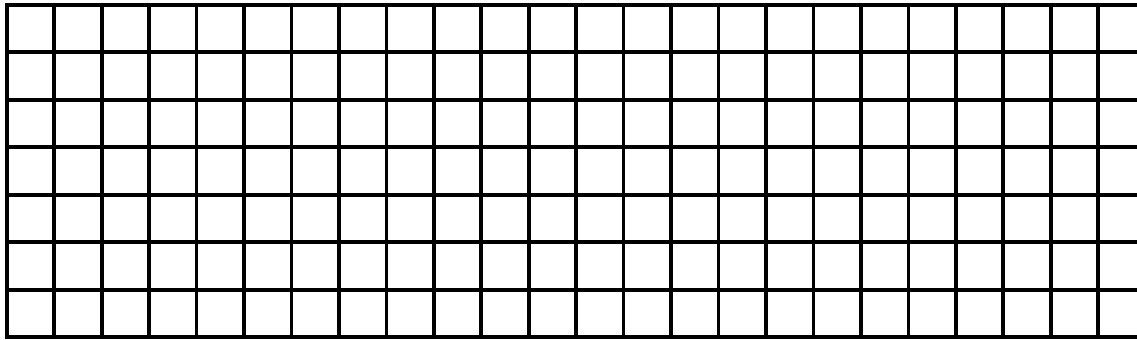
# Mitmesugused toimised



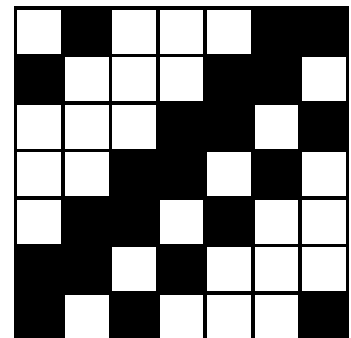
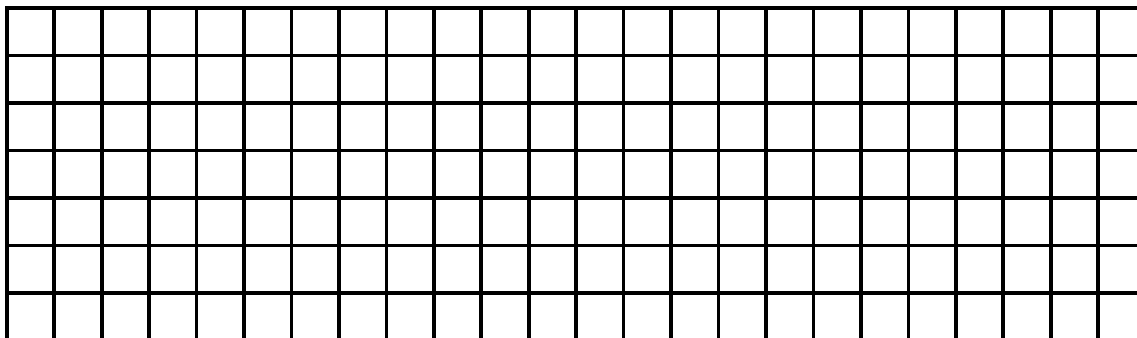
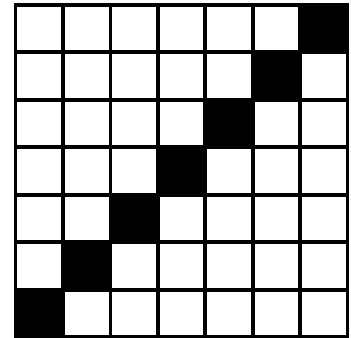
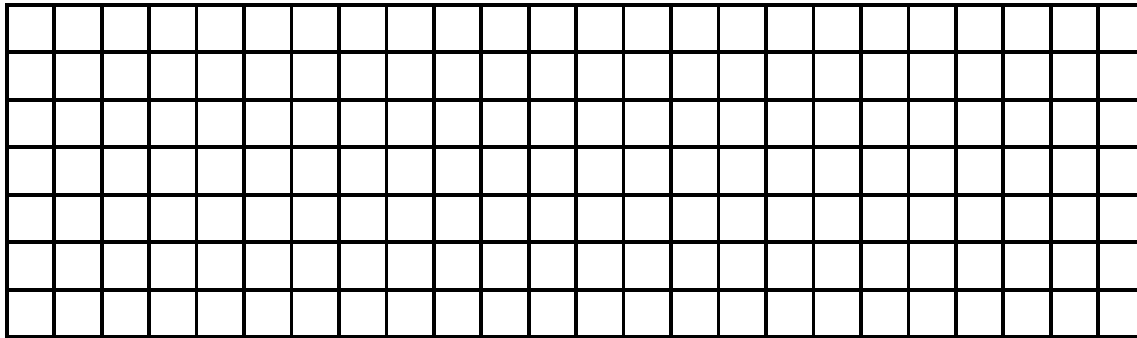
Nurktoimne



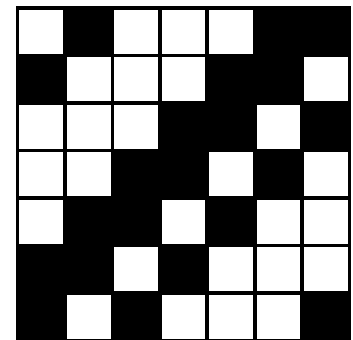
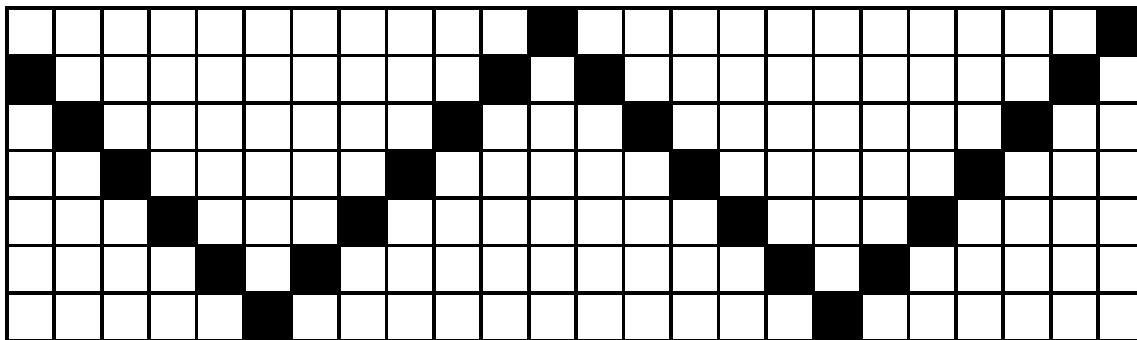
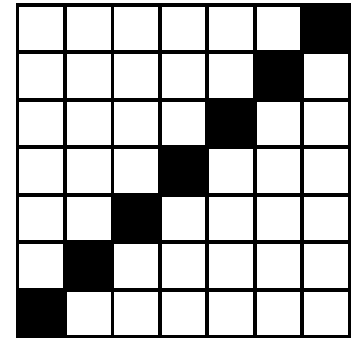
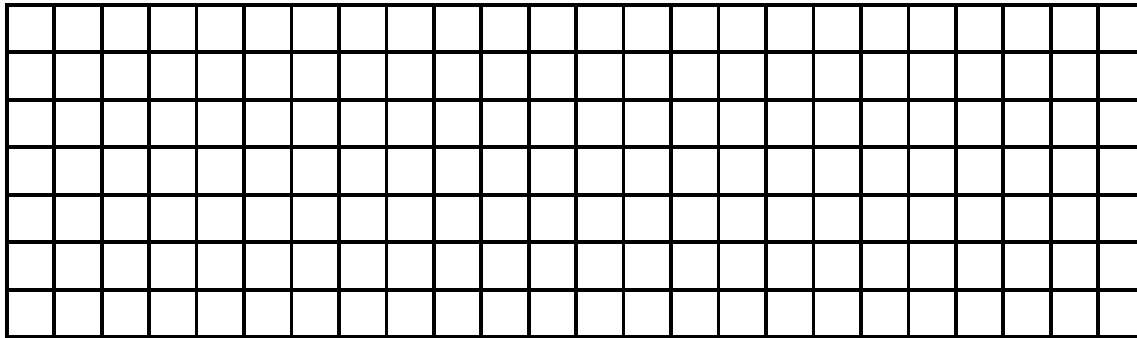
# Märgi koesuunalise nurktoimse koe rakendus ja kangapilt!



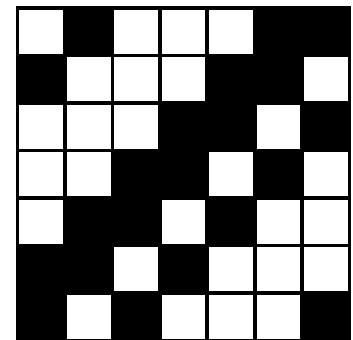
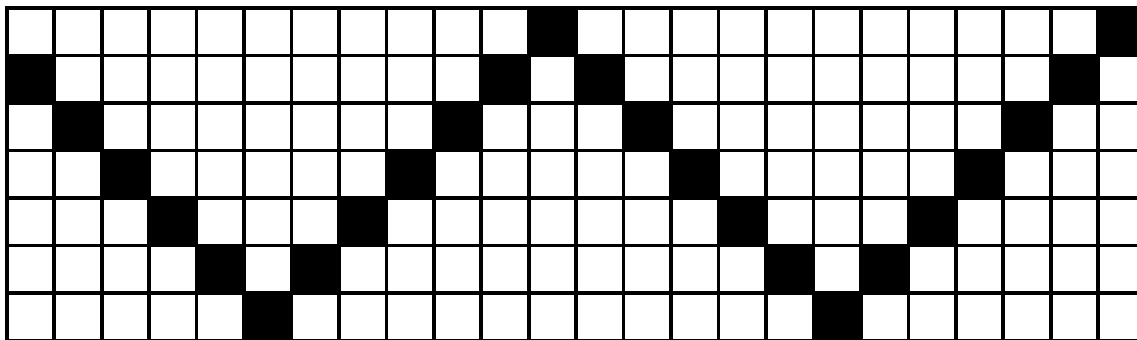
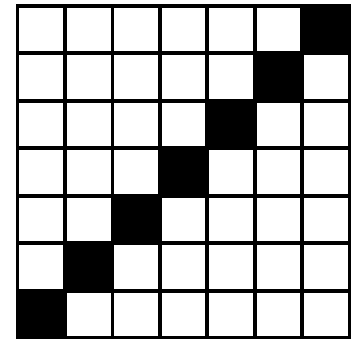
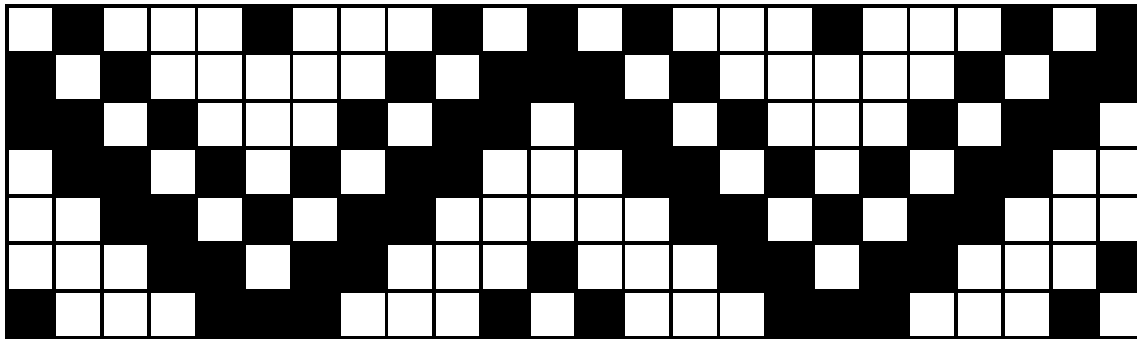
# Märgi koesuunalise nurktoimse koe rakendus ja kangapilt!



# Märgi koosuunalise nurktoimse koe rakendus ja kangapilt!



# Märgi koosuunalise nurktoimse koe rakendus ja kangapilt!

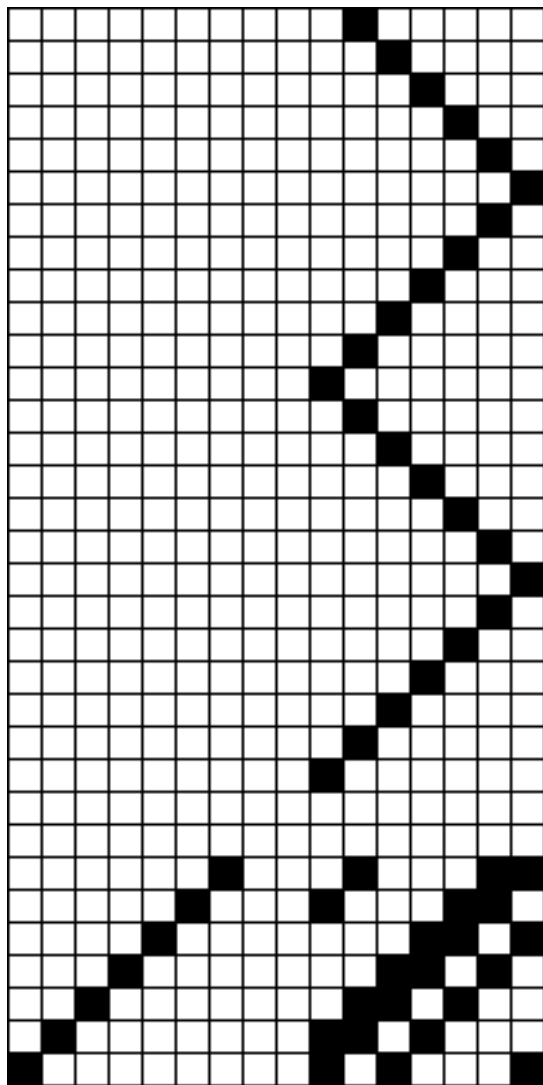




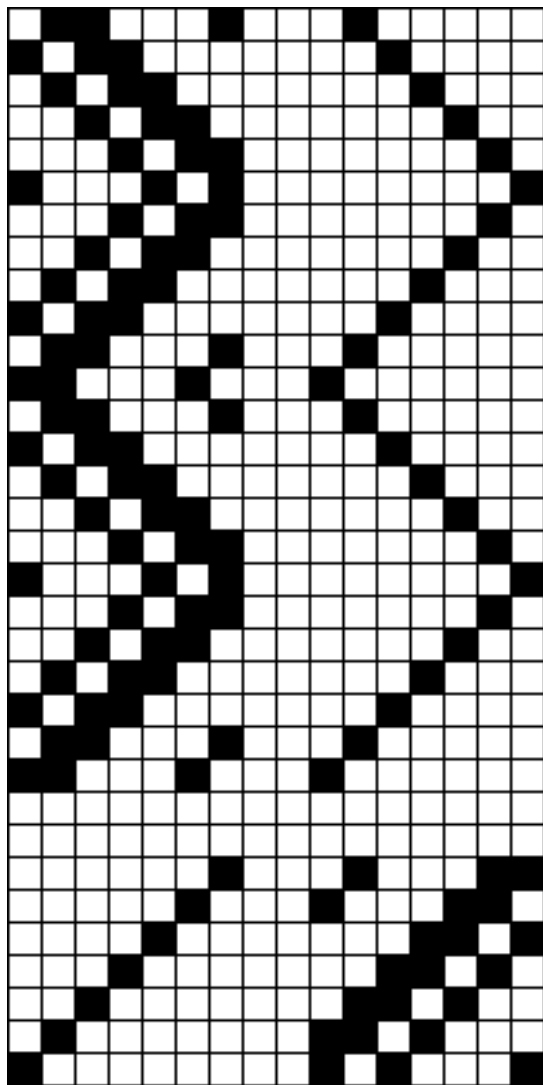




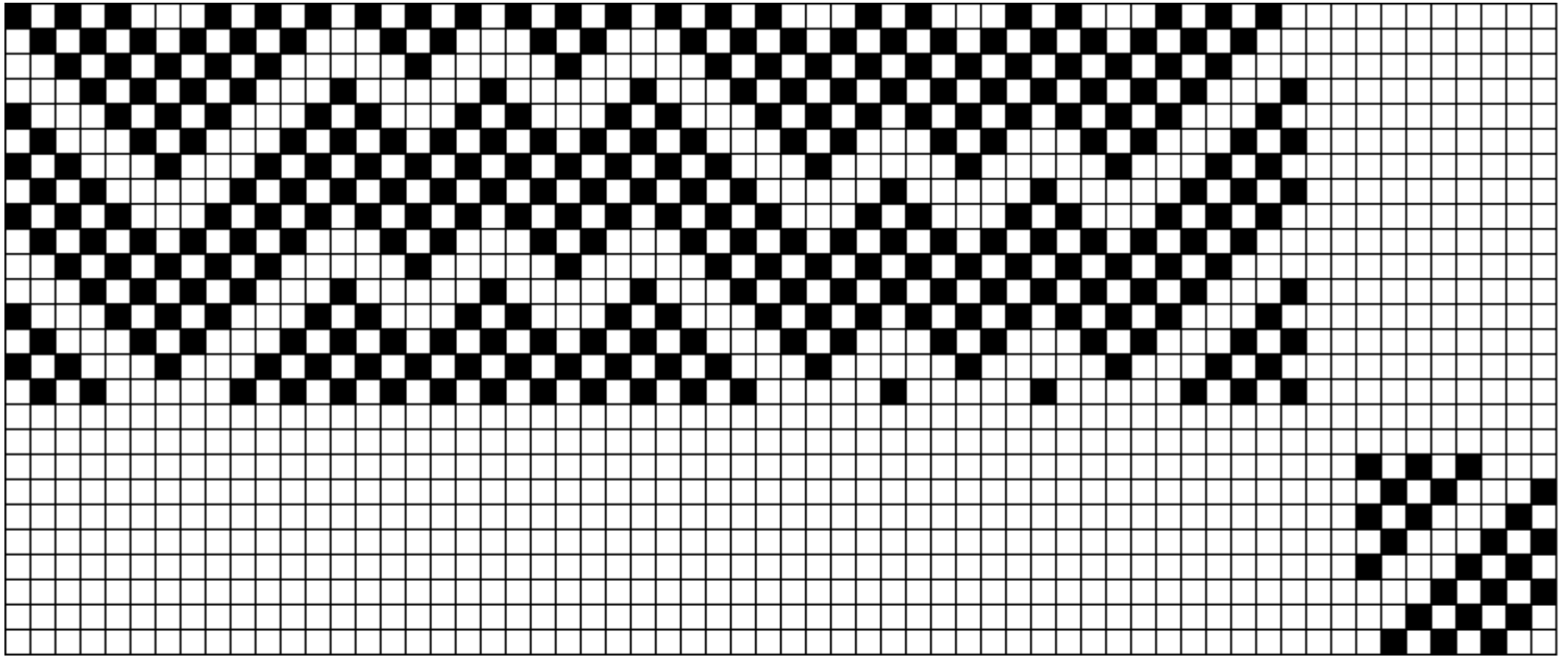
# Märgi lõimesuunalise nurktoimse rakendus ja kangapilt!



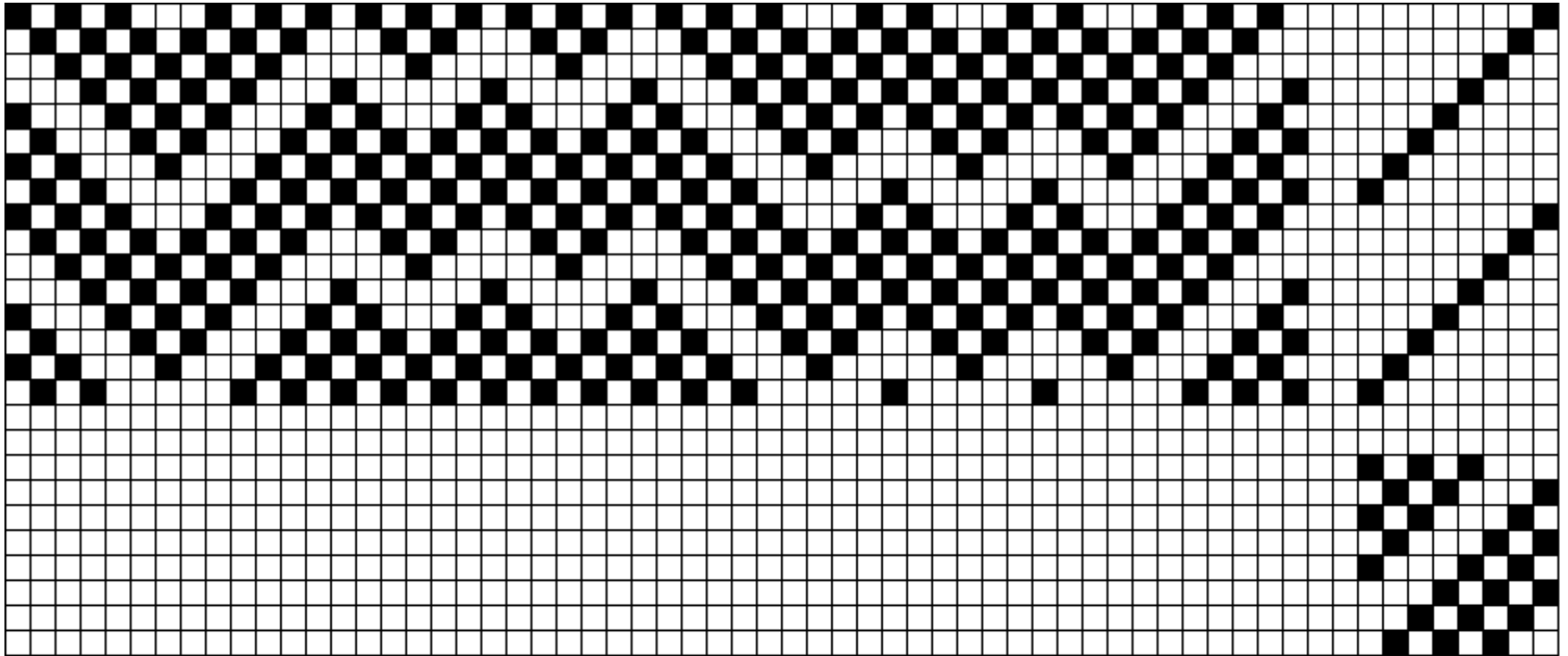
# Märgi lõimesuunalise nurktoimse rakendus ja kangapilt!



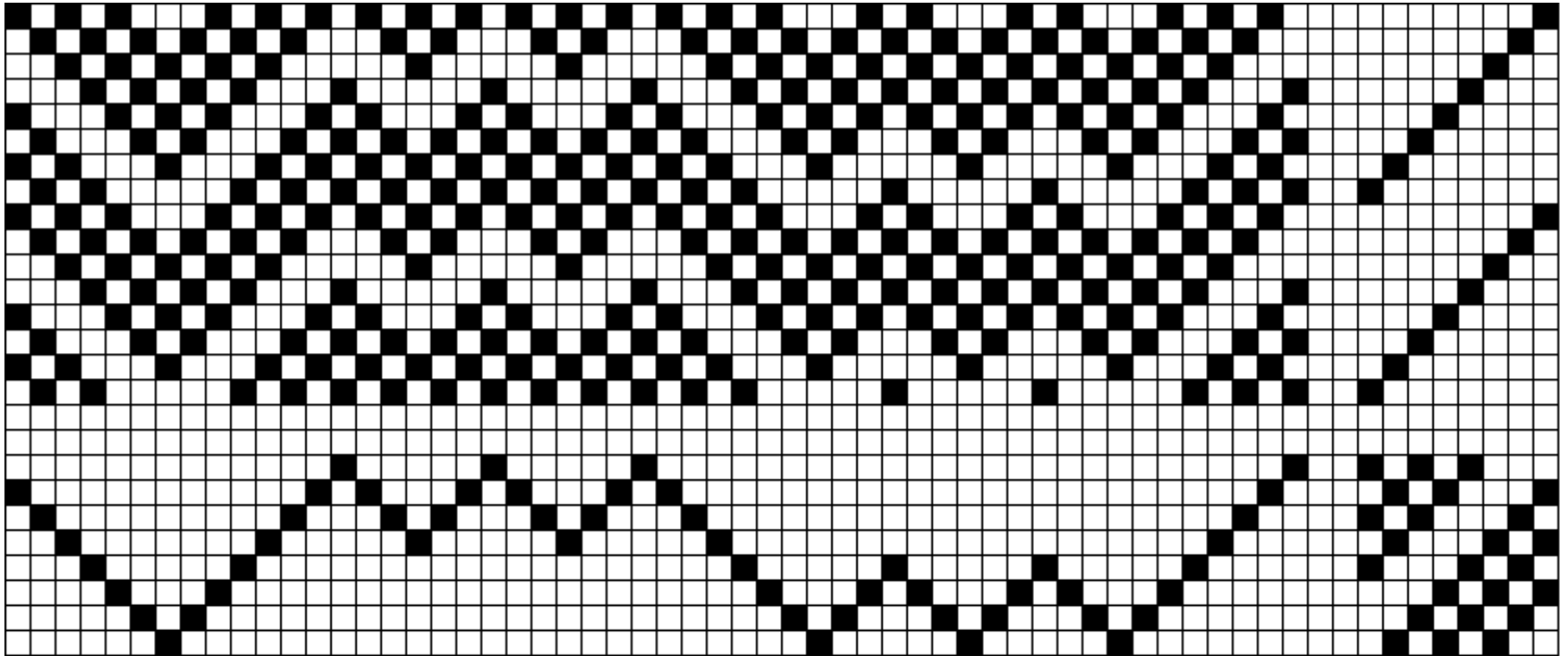
# “Rütmiline” kaunistatud nurktoimne kiri



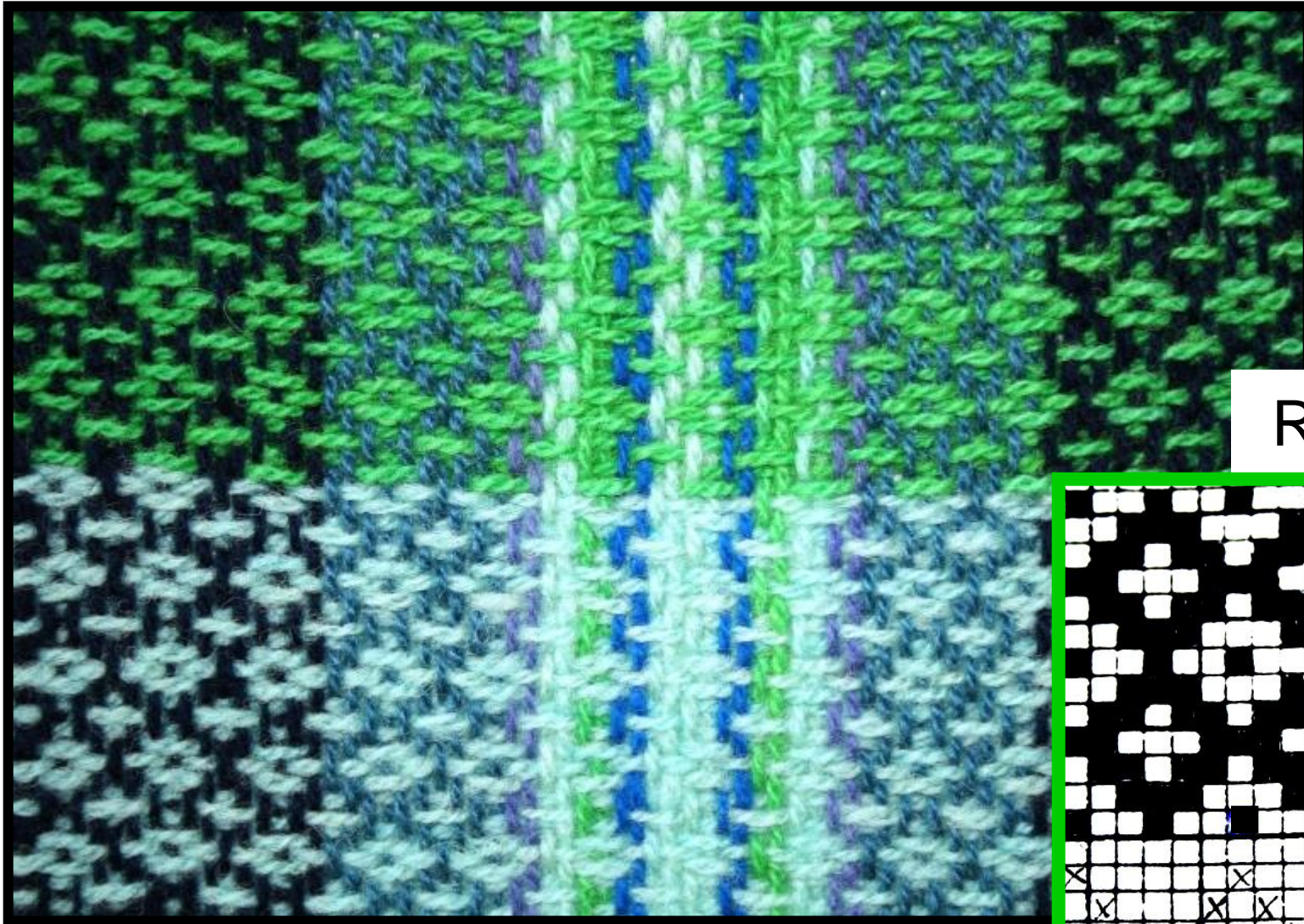
# “Rütmiline” kaunistatud nurktoimne kiri



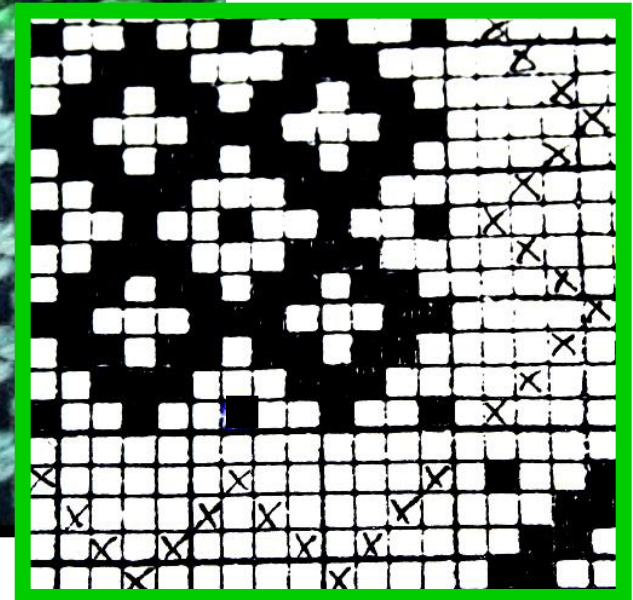
# “Rütmiline” kaunistatud nurktoimne kiri



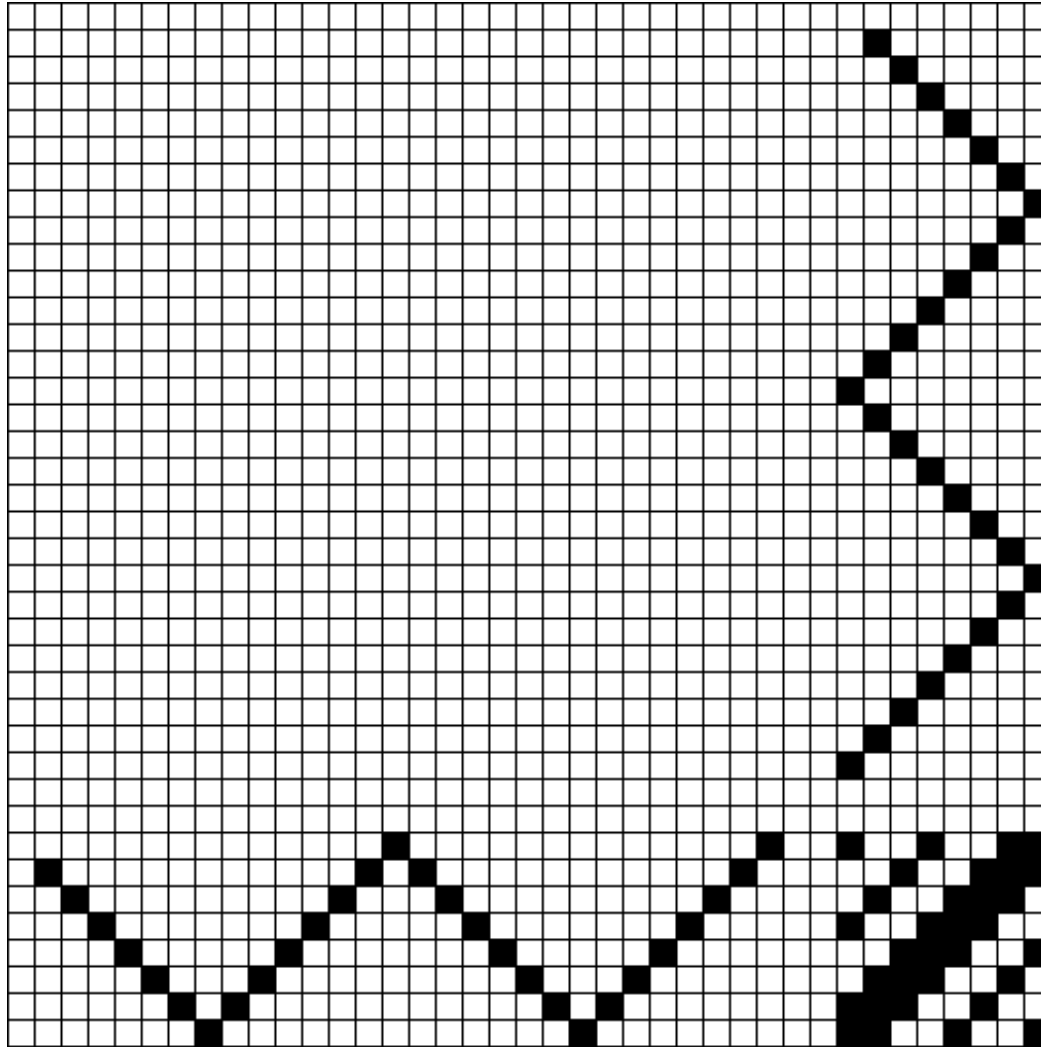
# b. Tuletatud kangad



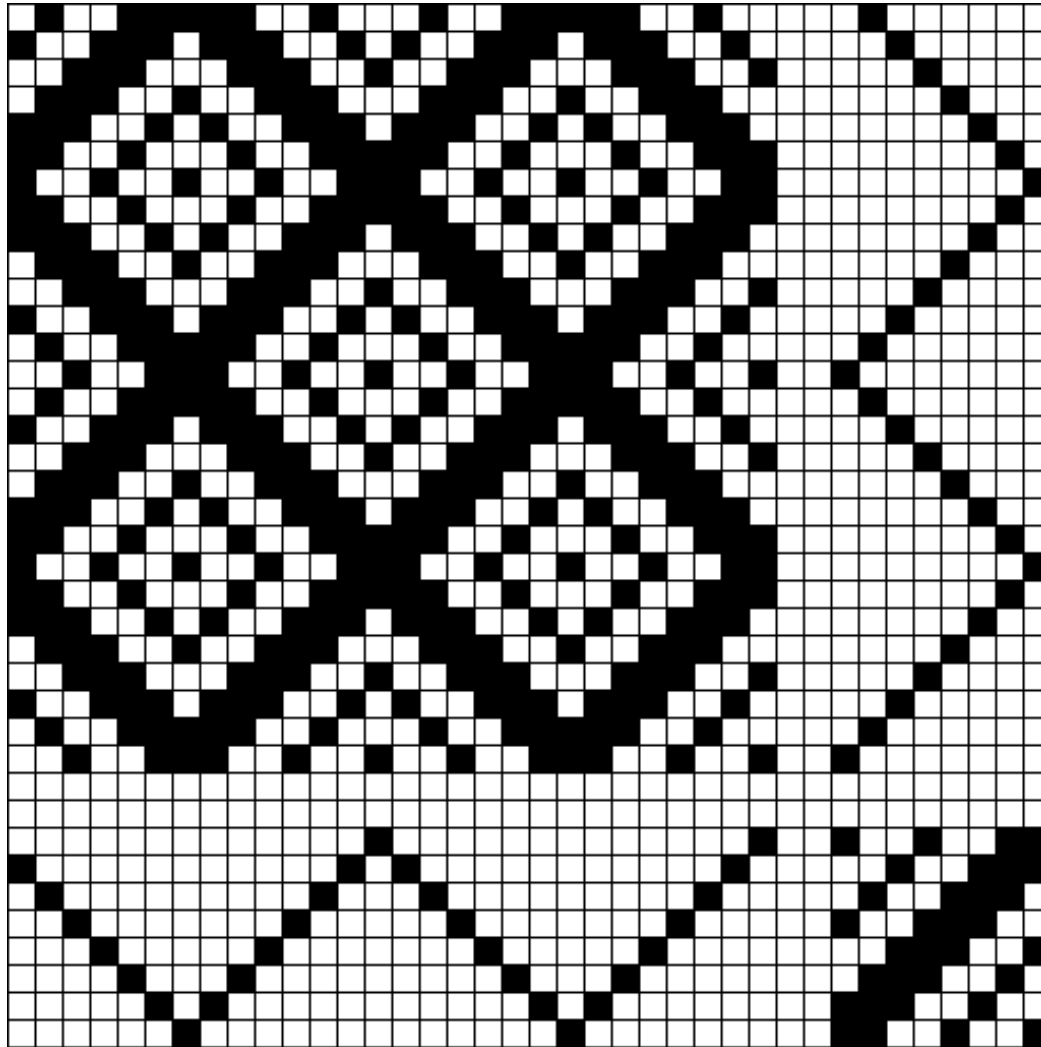
Risttoimne



# Märgi kangakiri!

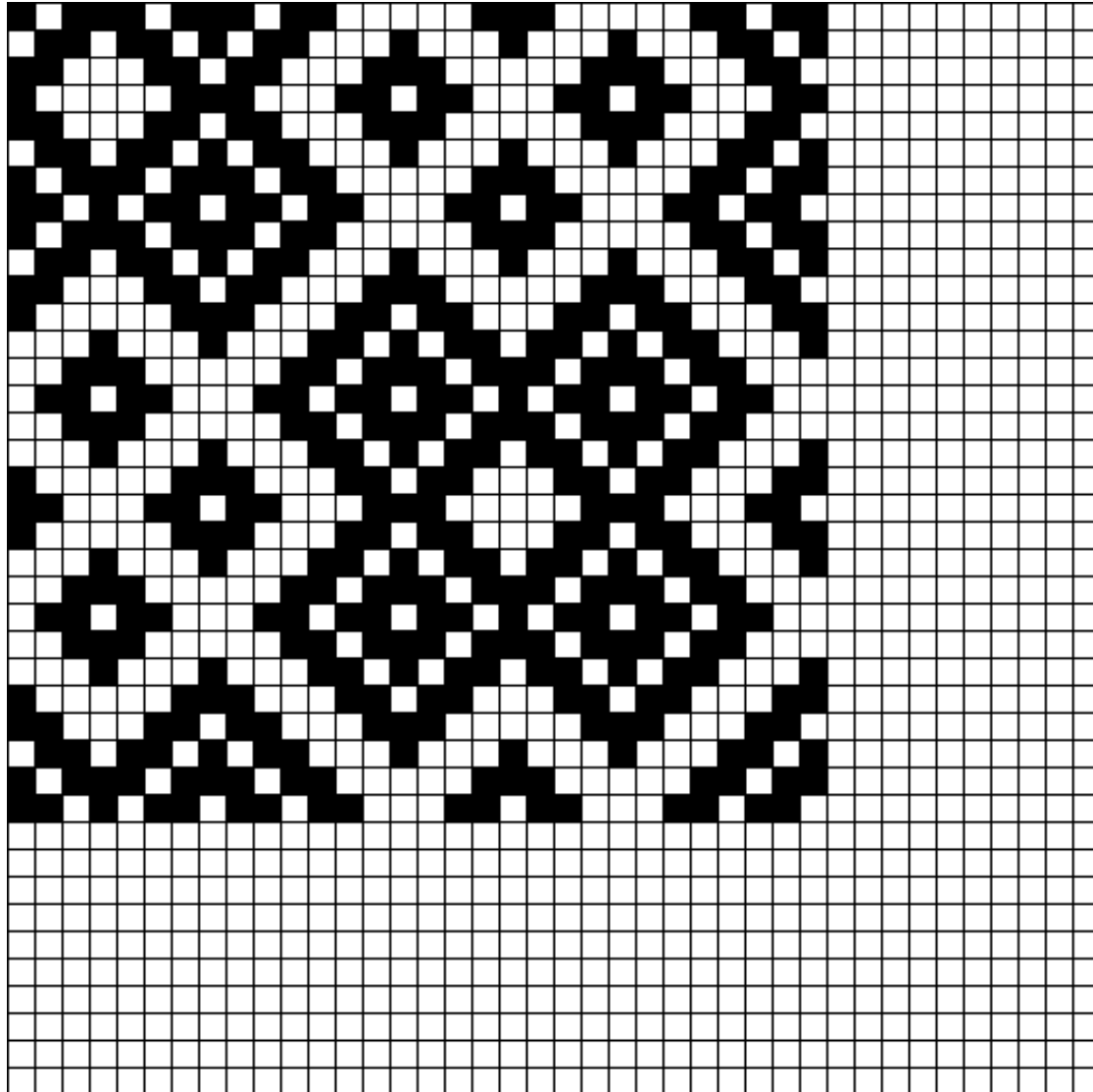


# Märgi kangakiri!

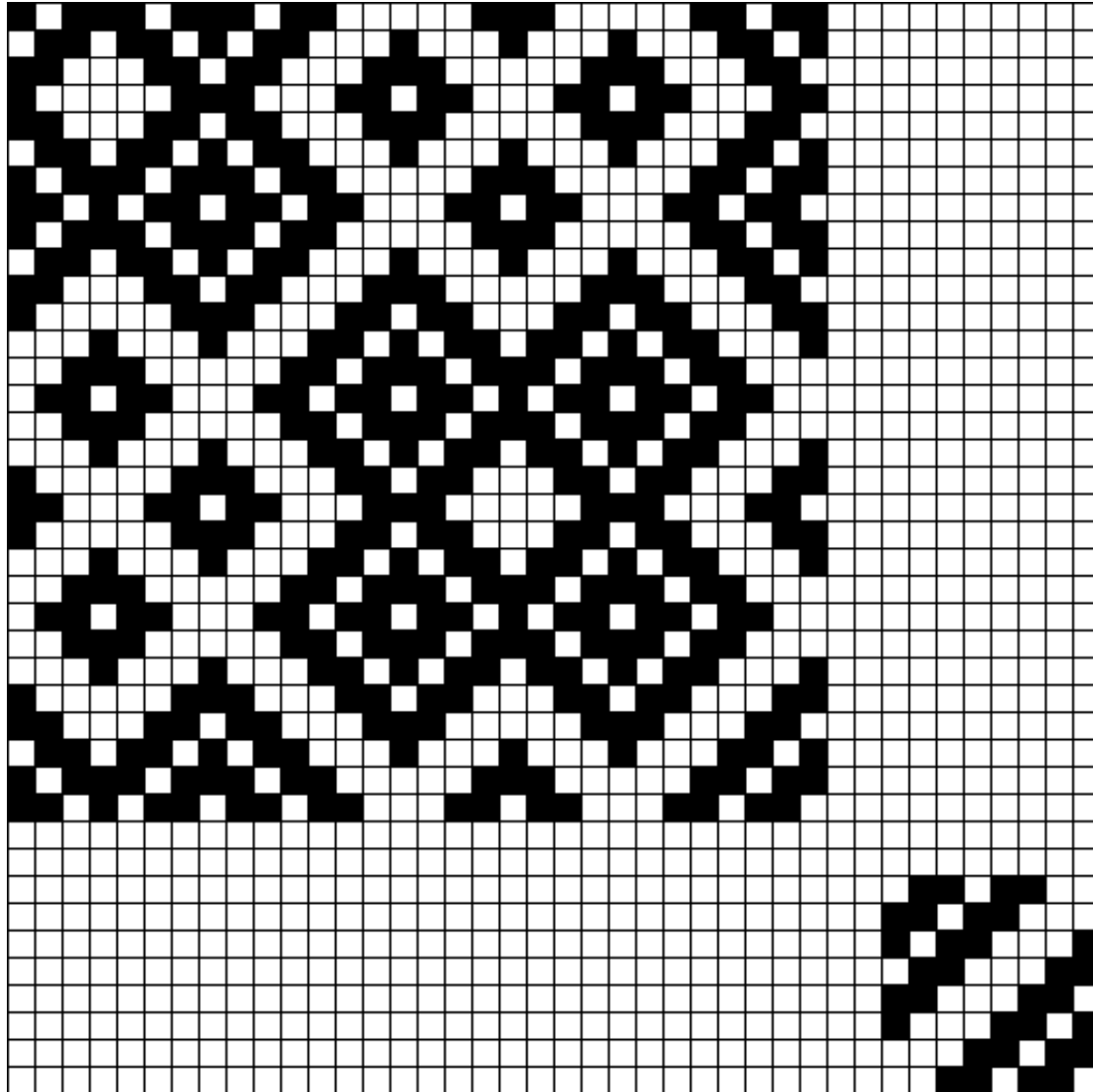




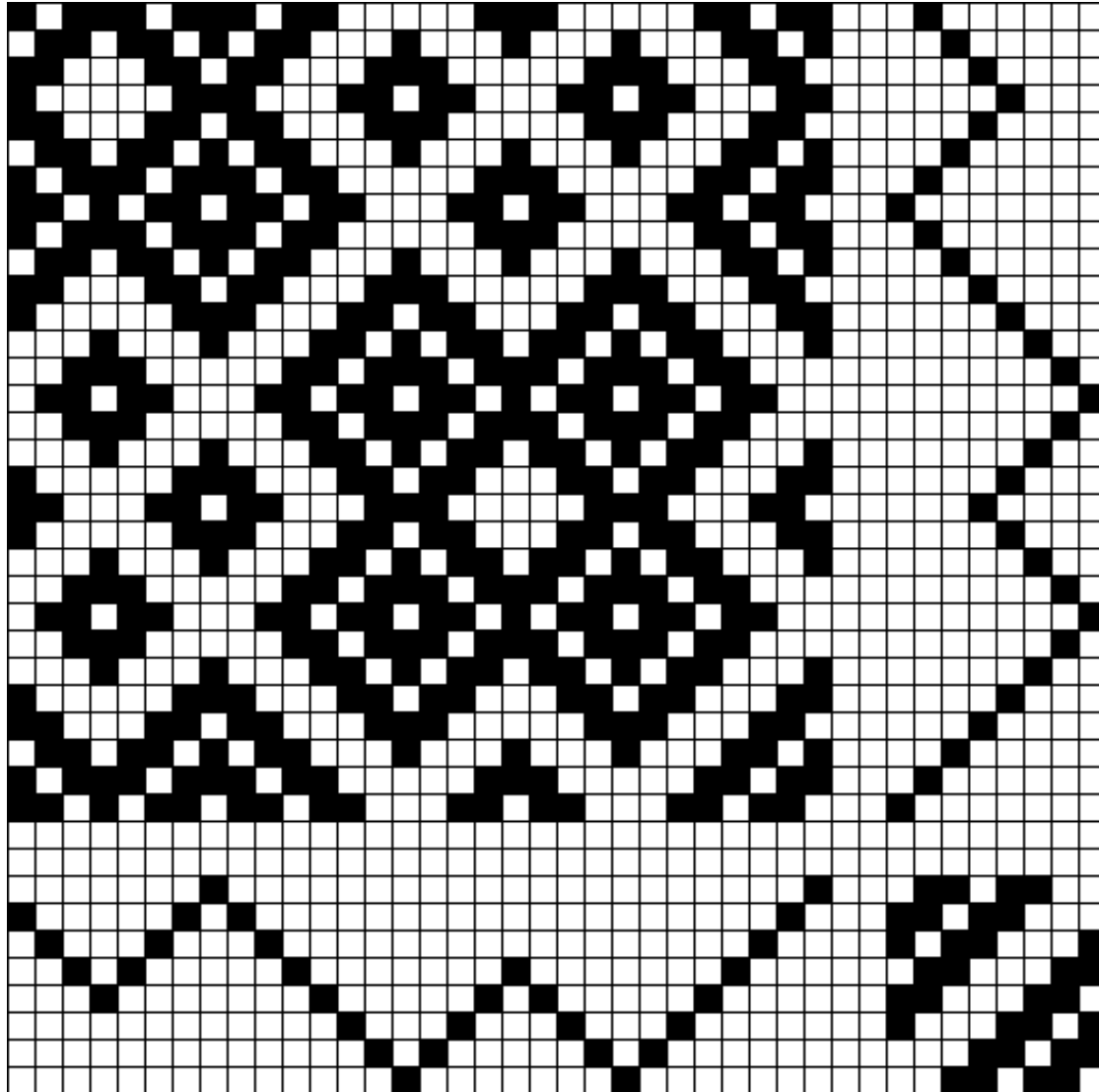
# Märgi sidus!



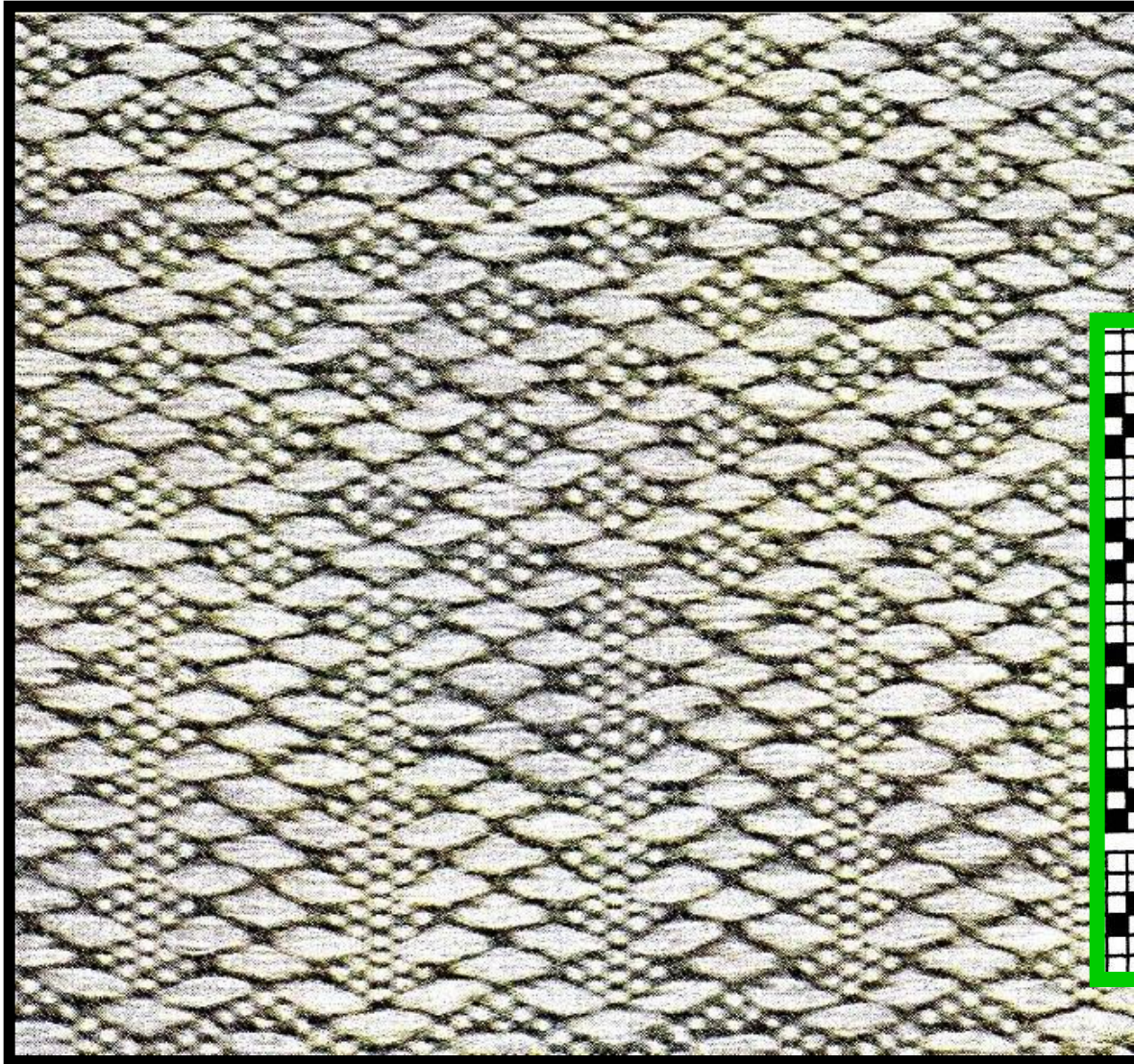
# Märgi rakendus!



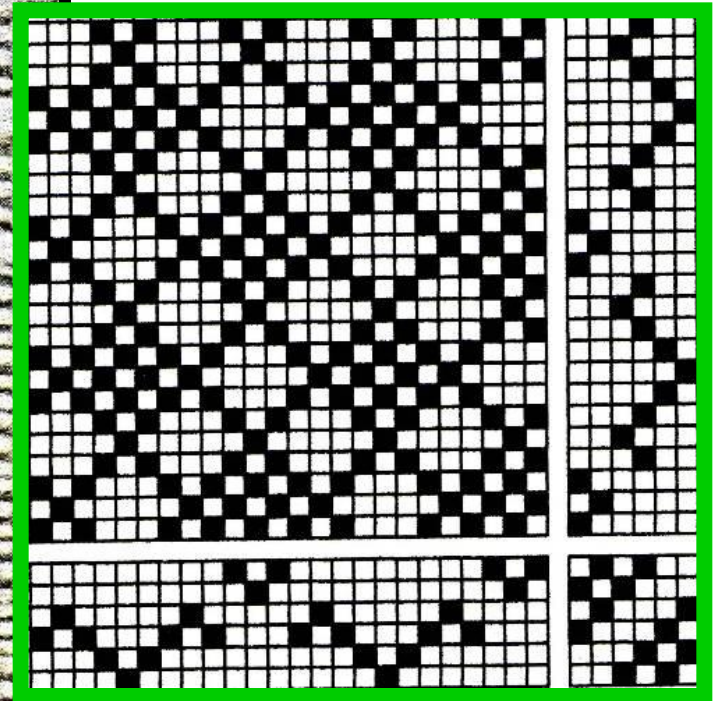
# Märgi rakendus!



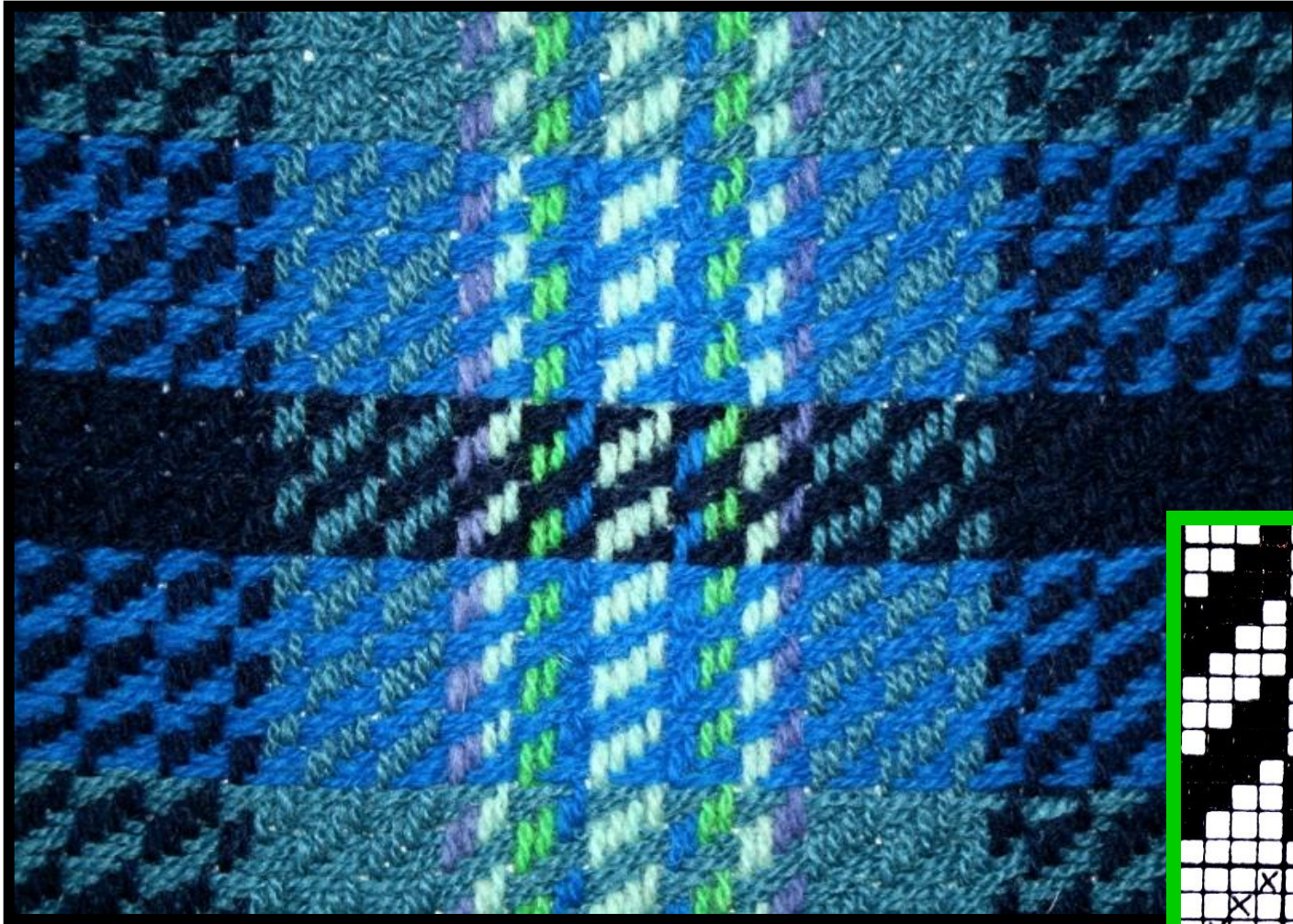
# b. Tuletatud kangad



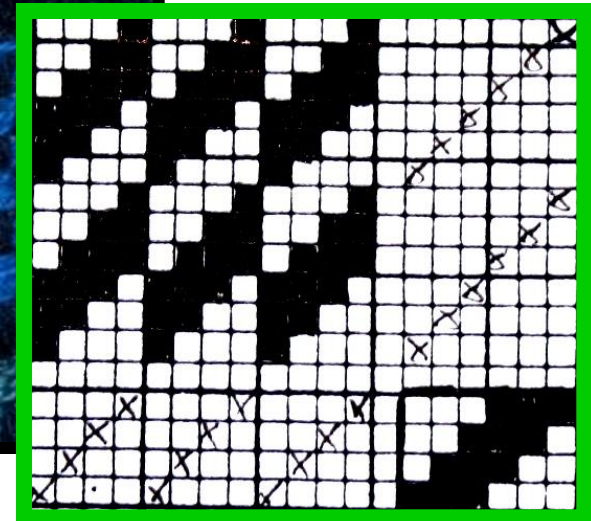
**Põhjasidus**



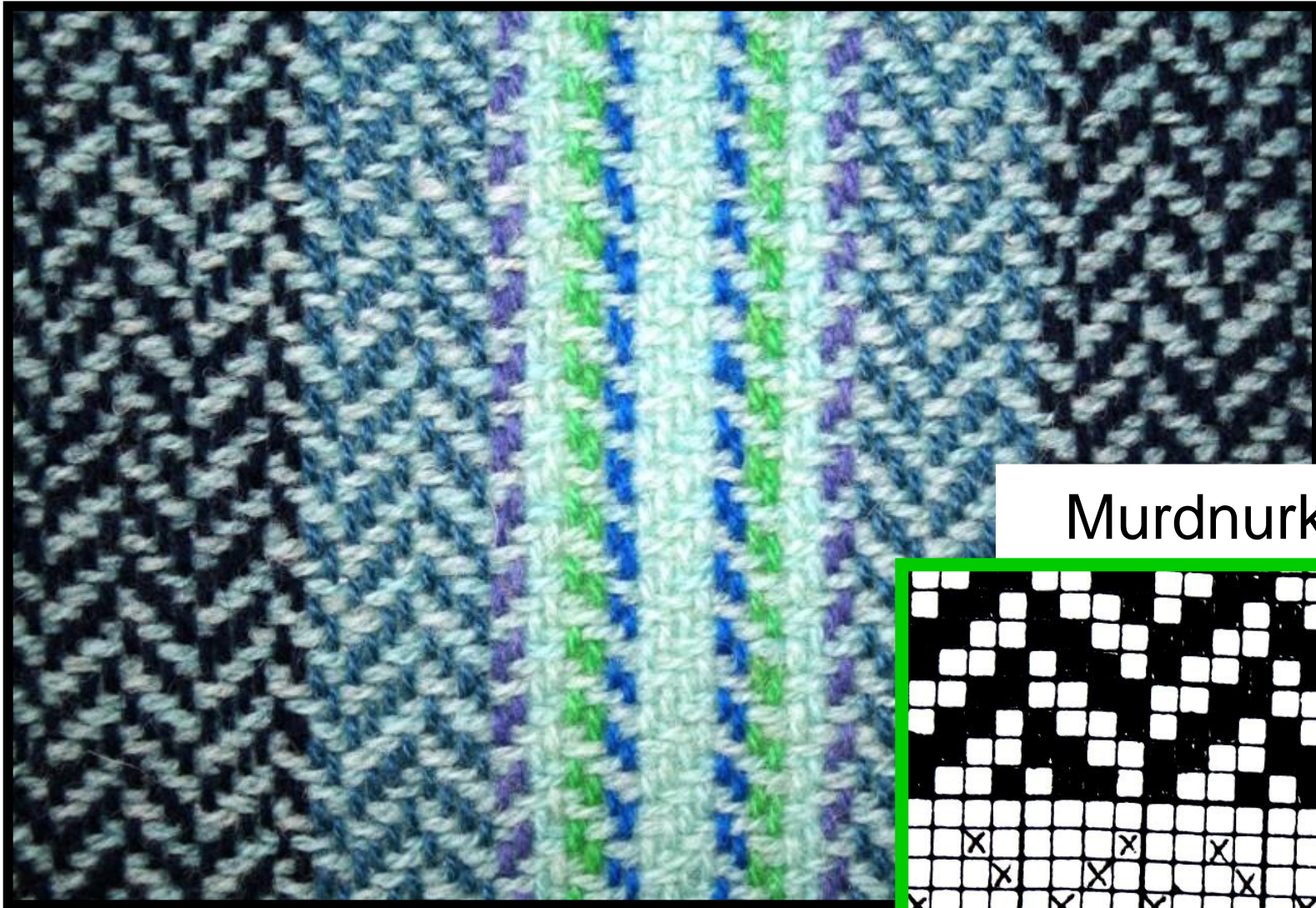
## b. Tuletatud kangad



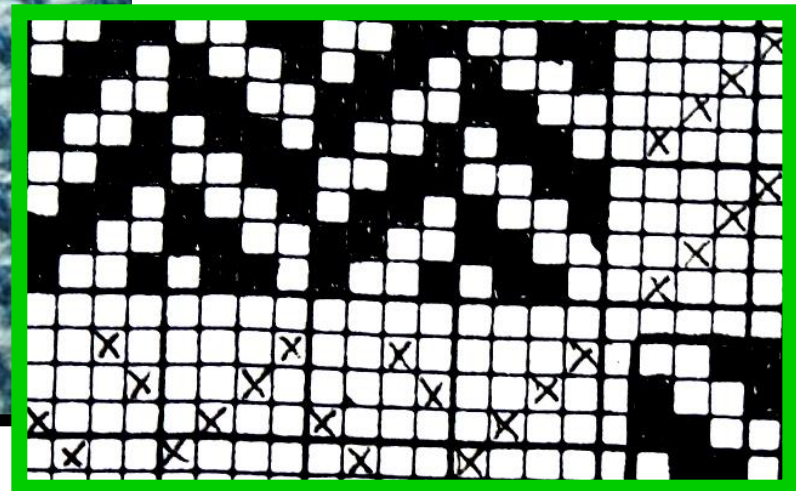
Murdtoimne



# b. Tuletatud kangad



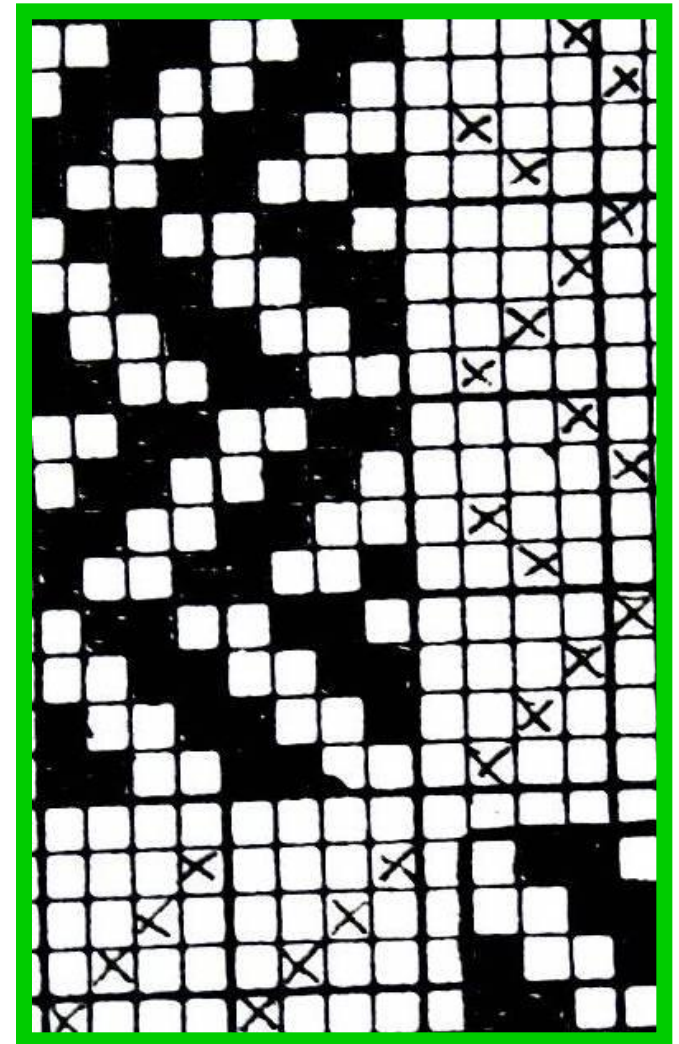
Murdnurktoimne



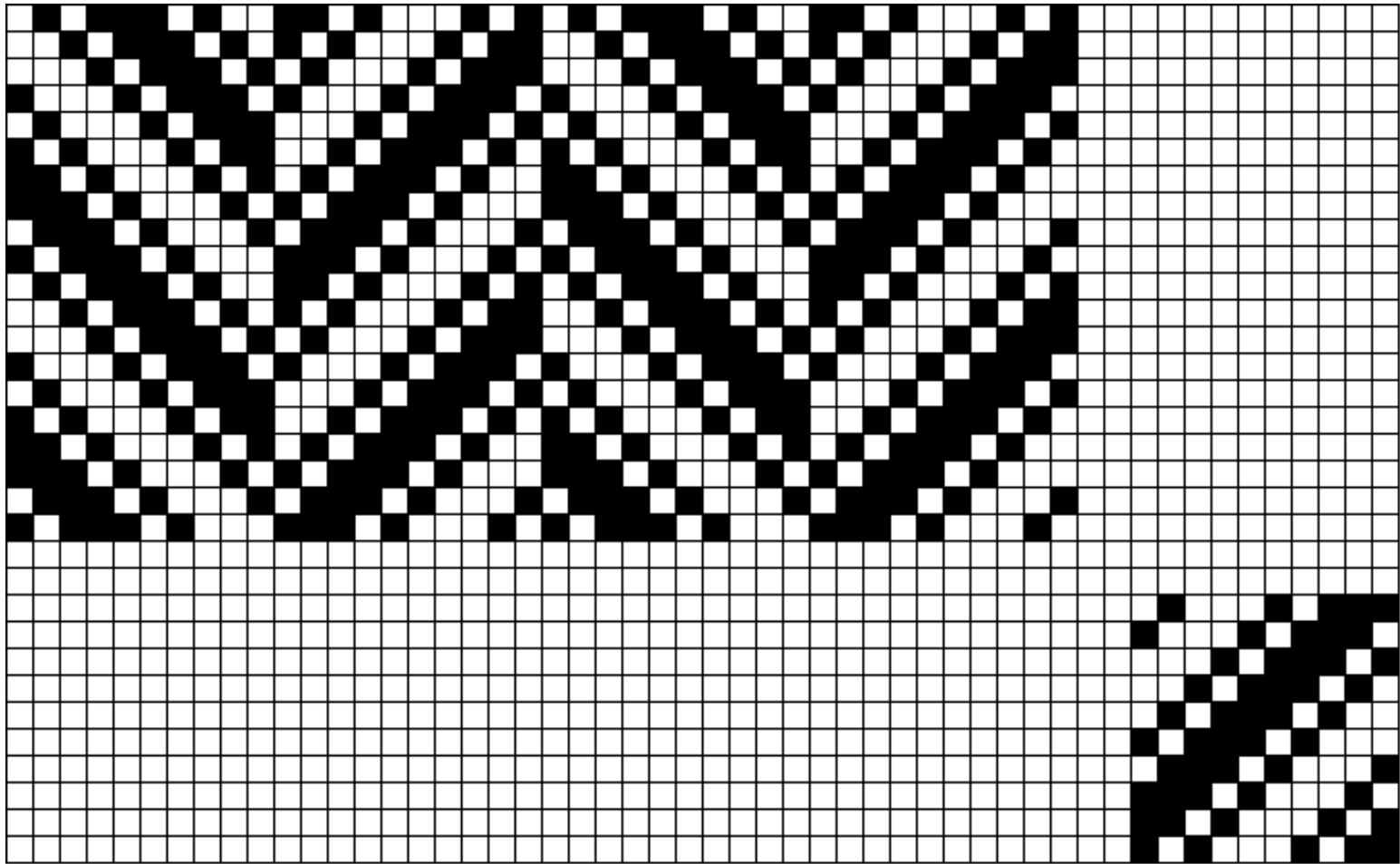
# b. Tuletatud kangad



Murdnurktoimne

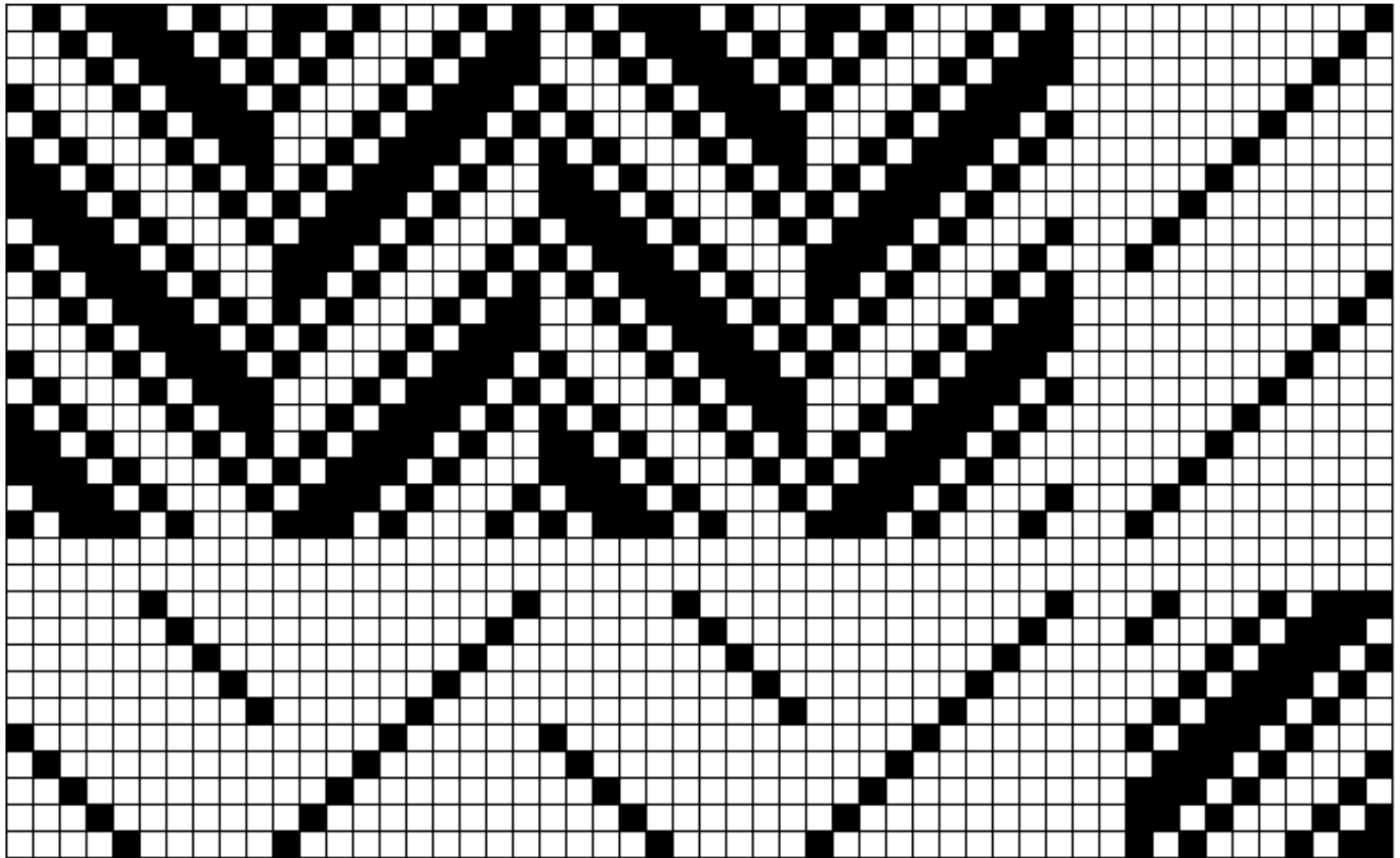


# Murd-nurktoimne

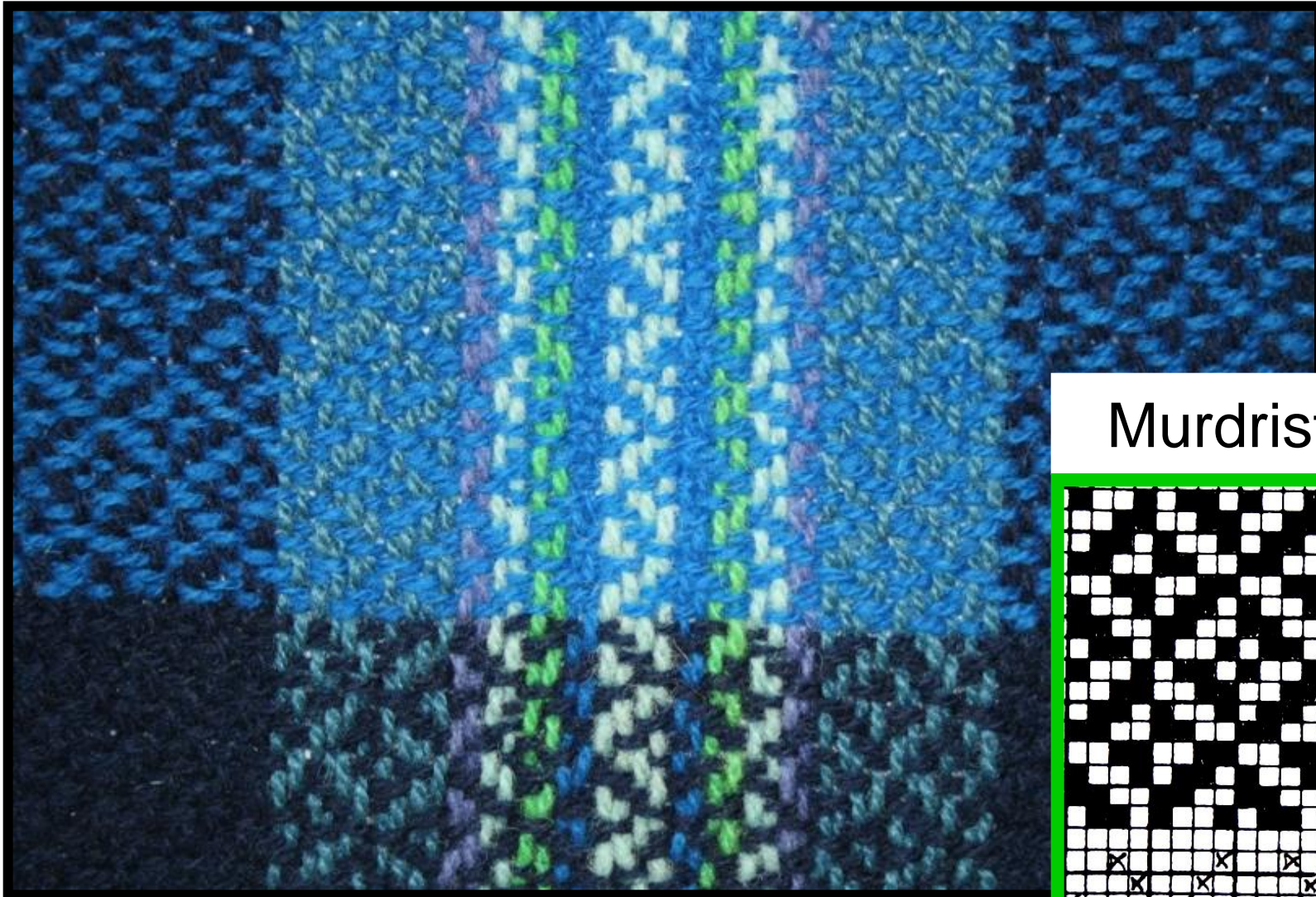




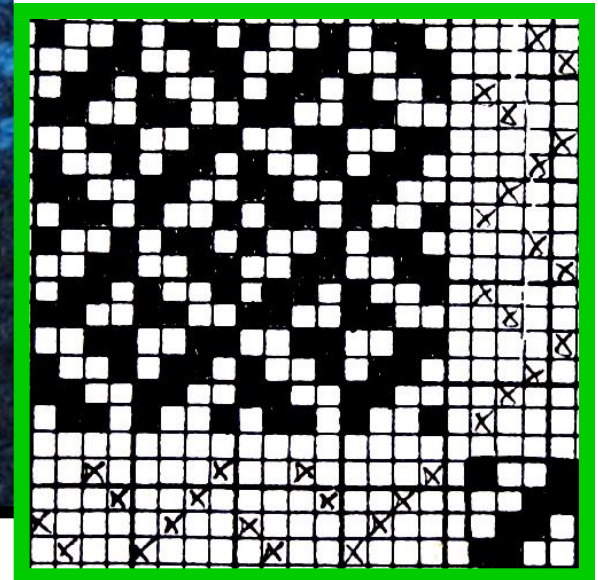
# Murd-nurktoimne



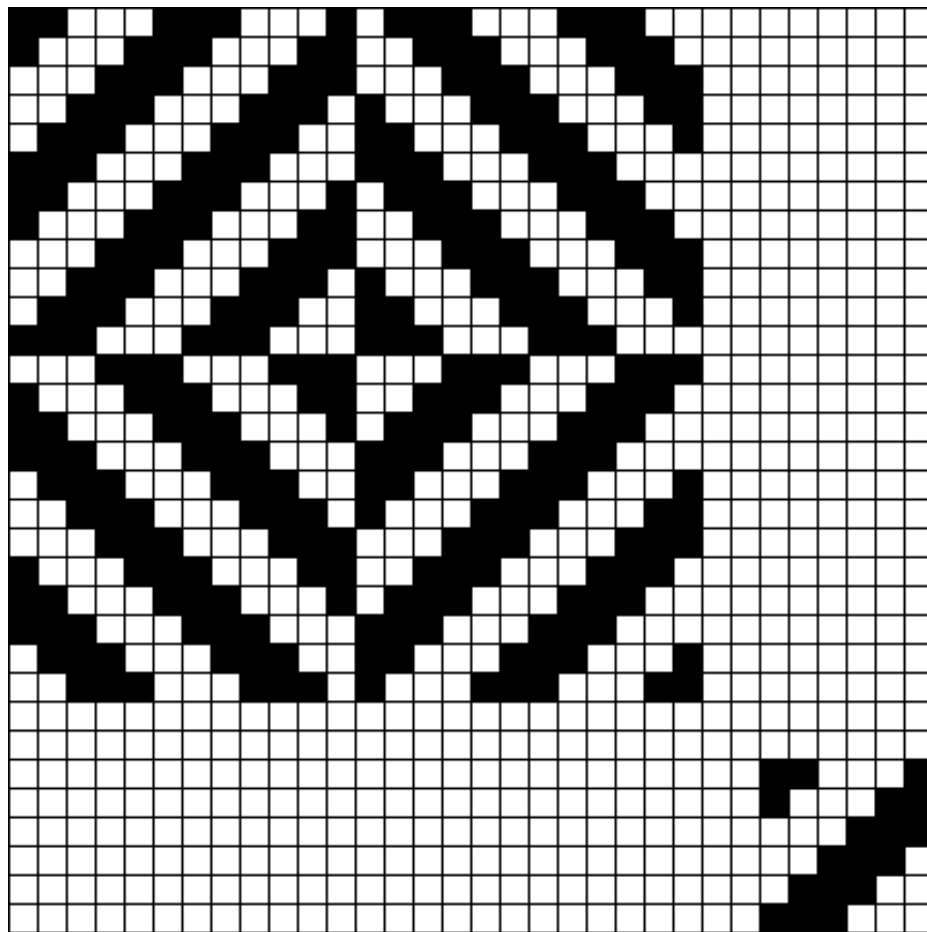
# b. Tuletatud kangad



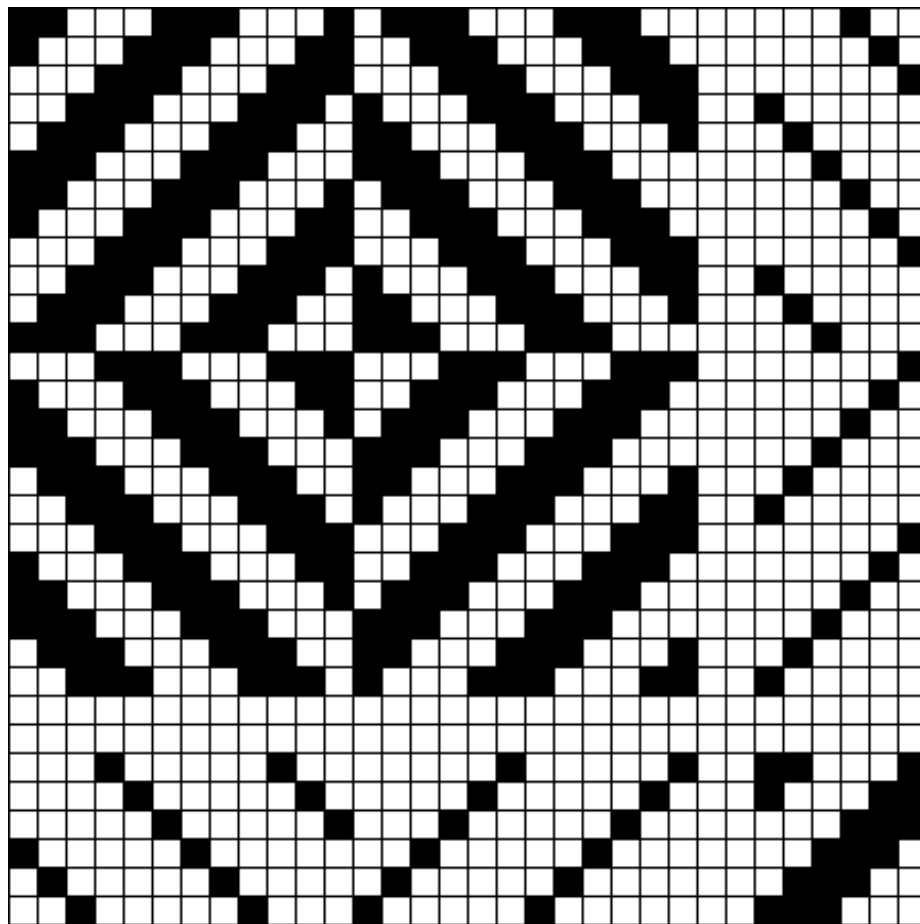
Murdristoimne



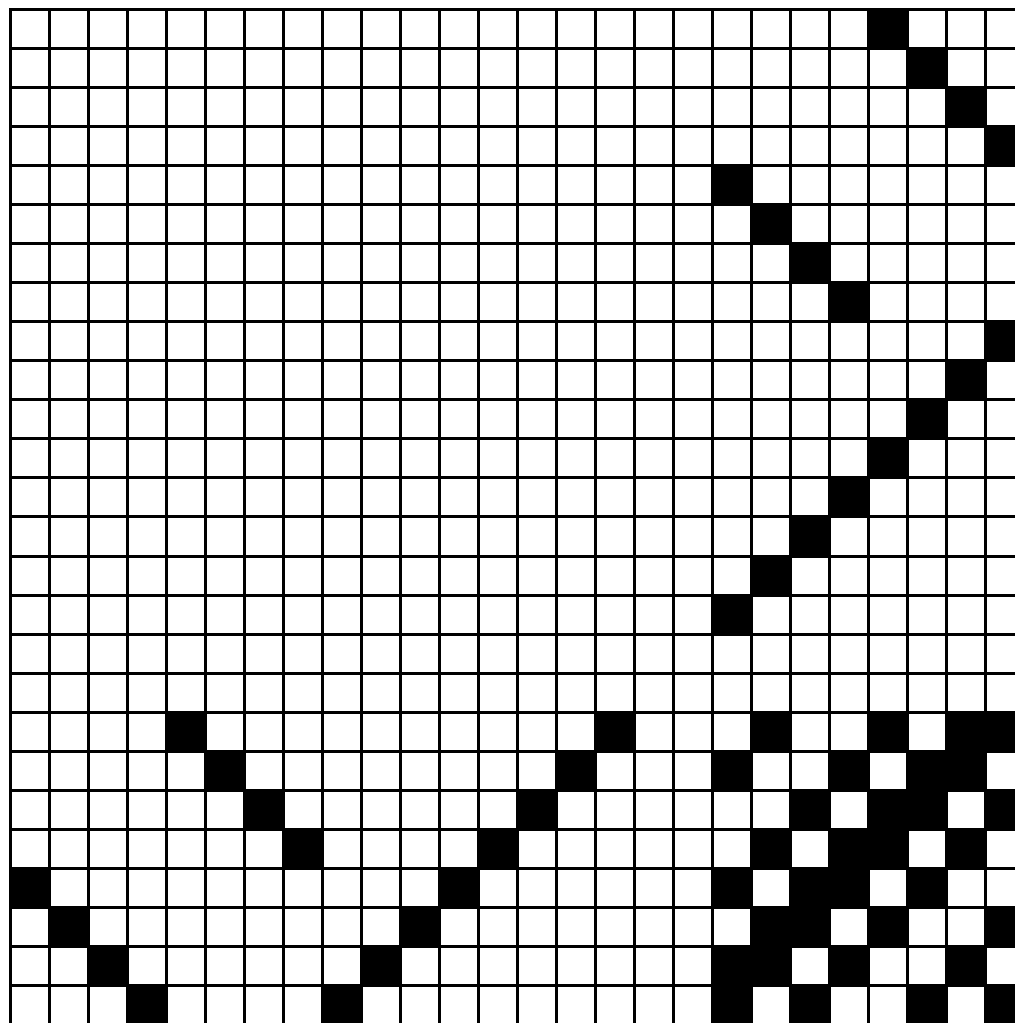
# Murdristoimne



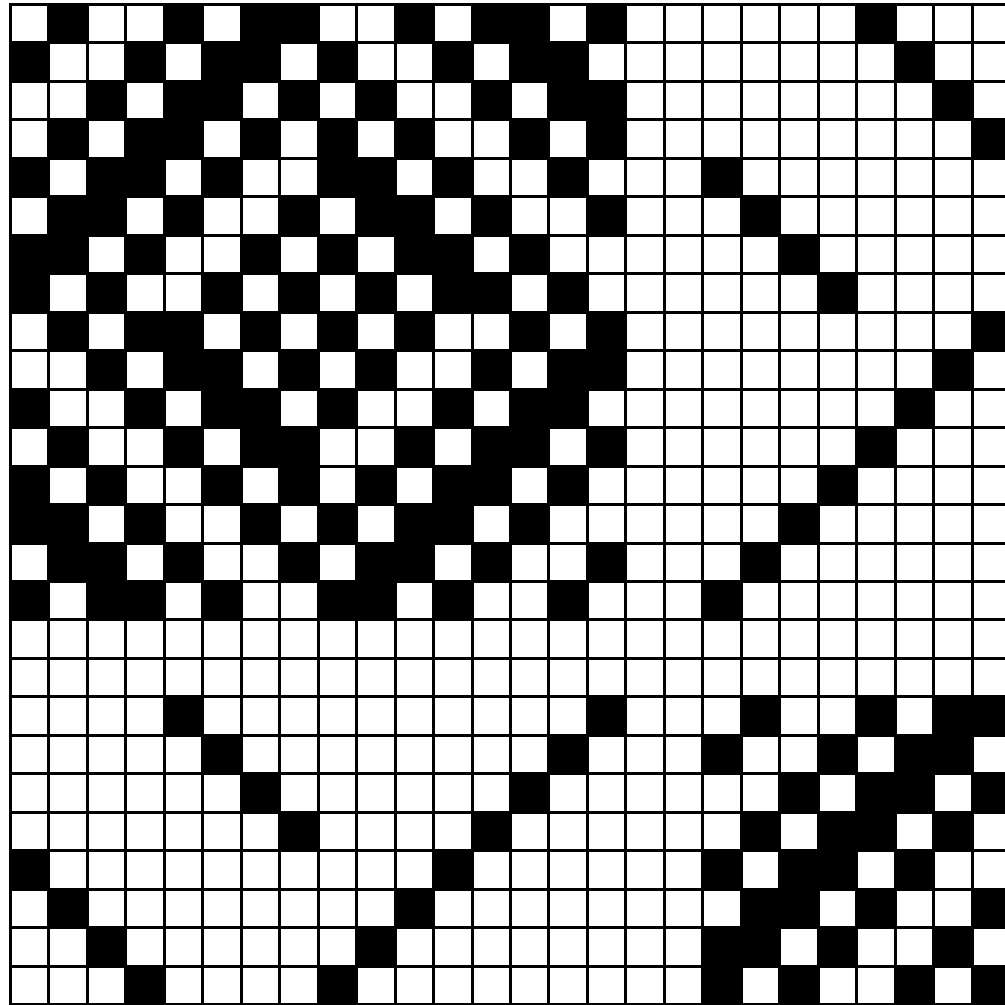
# Murdristoimne



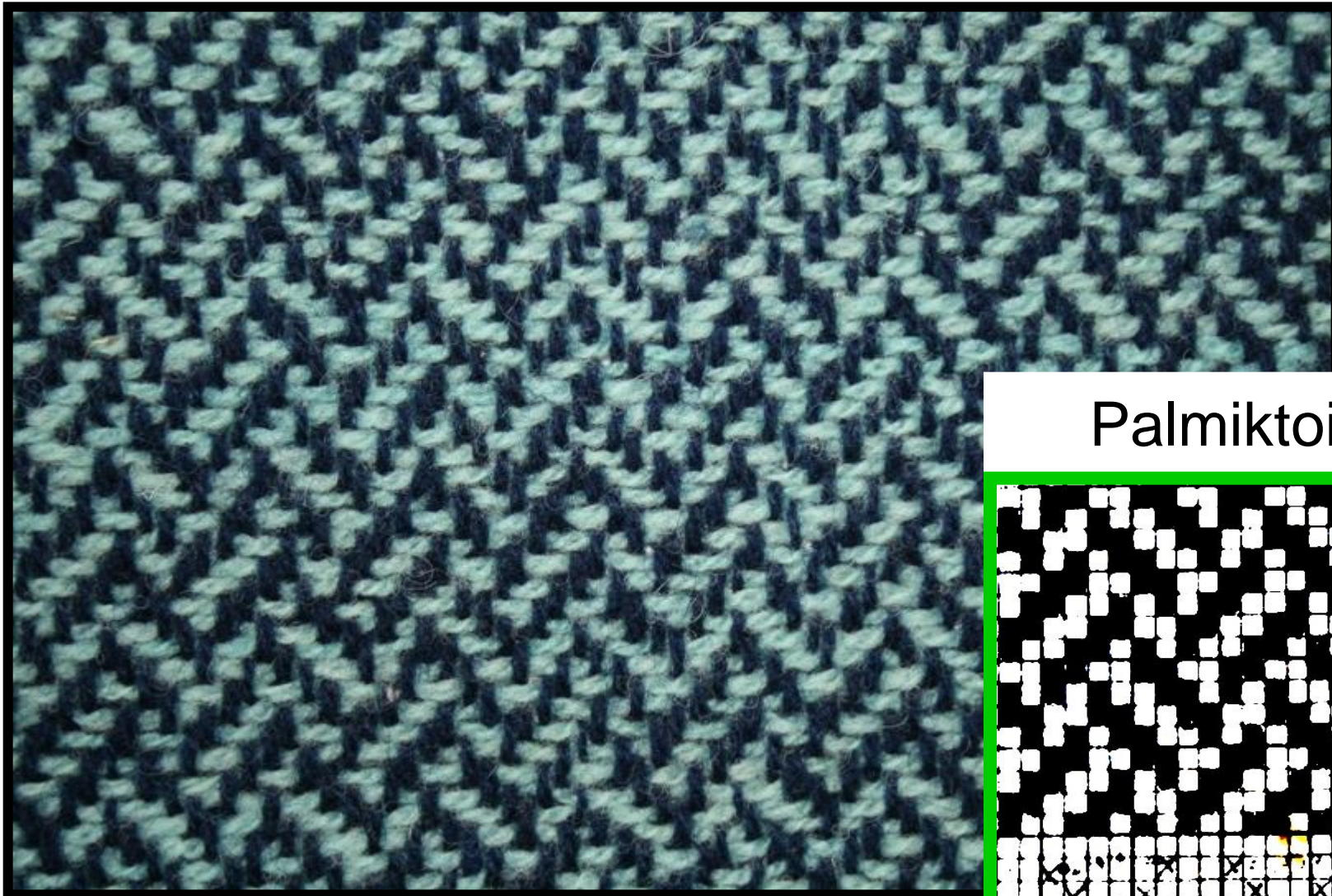
# Murdristoimne



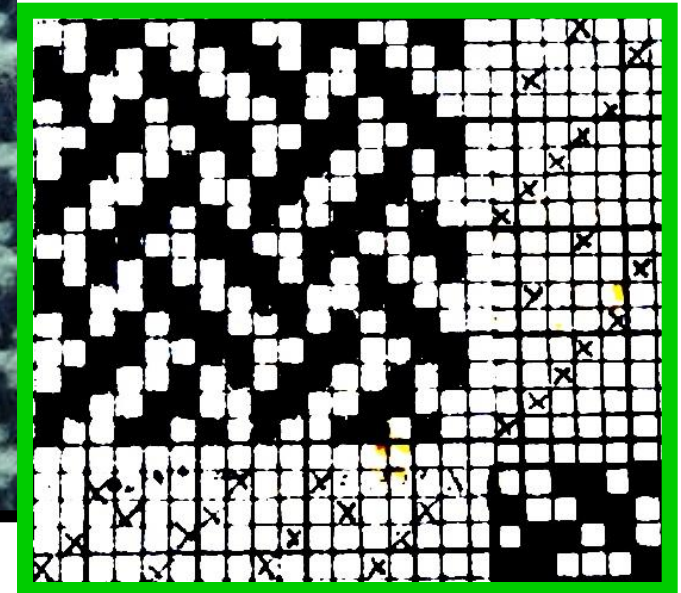
# Murdristoimne



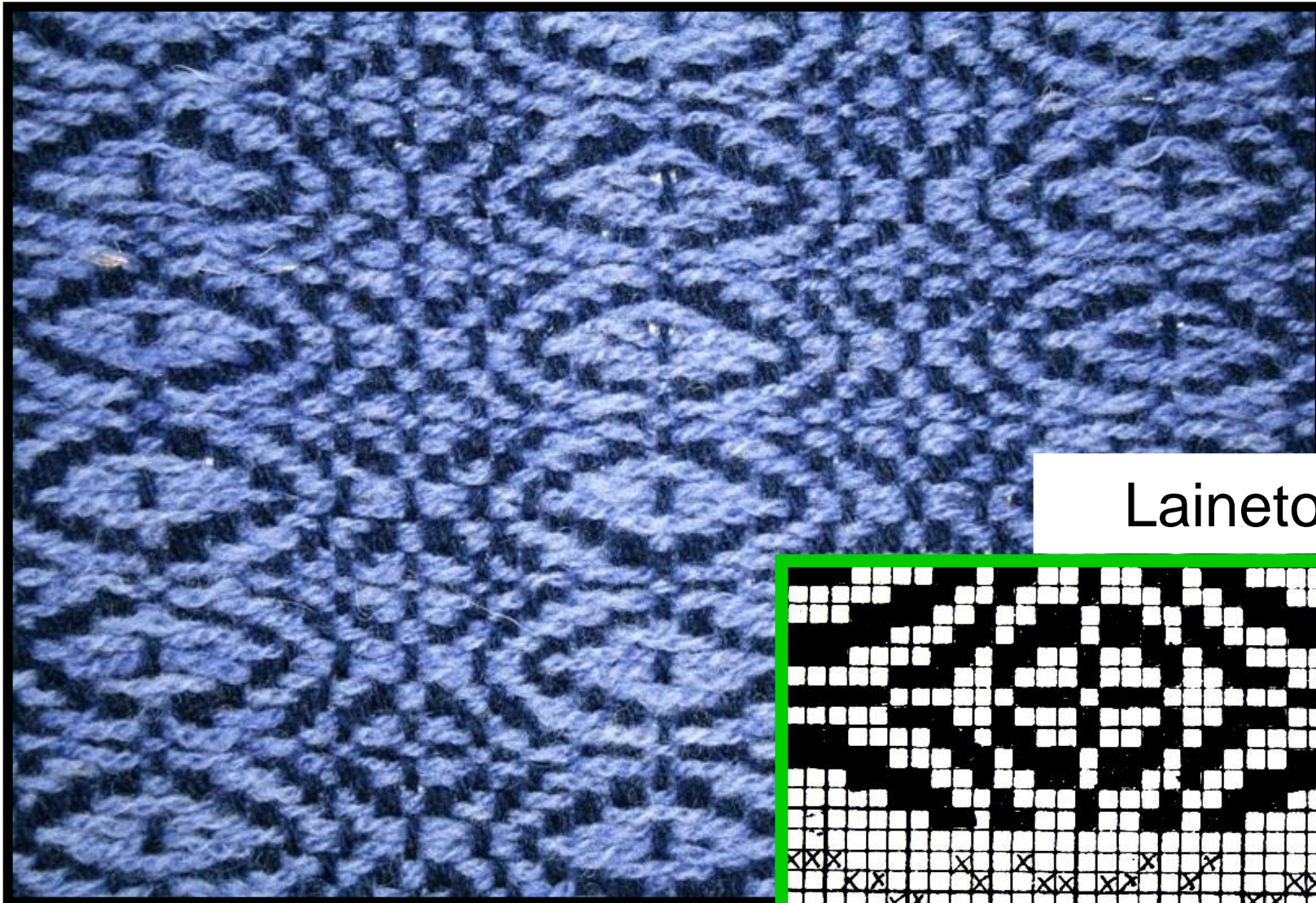
## b. Tuletatud kangad



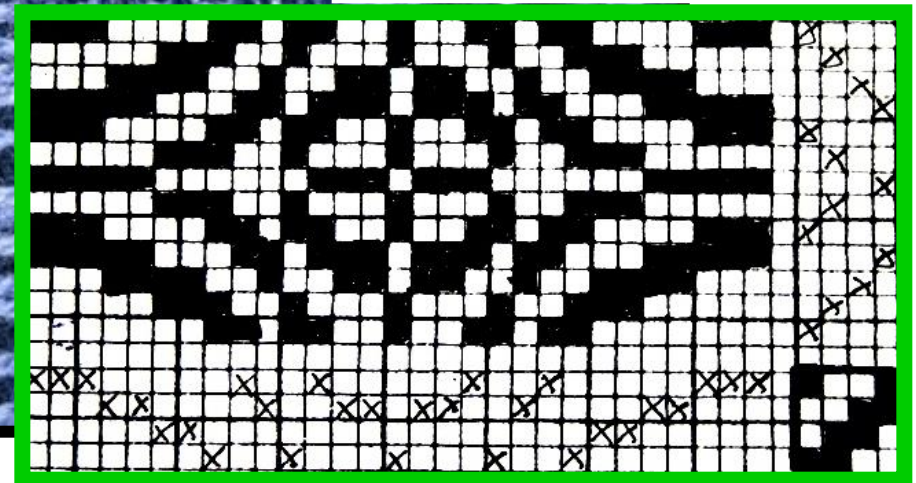
Palmiktoimne



# b. Tuletatud kangad

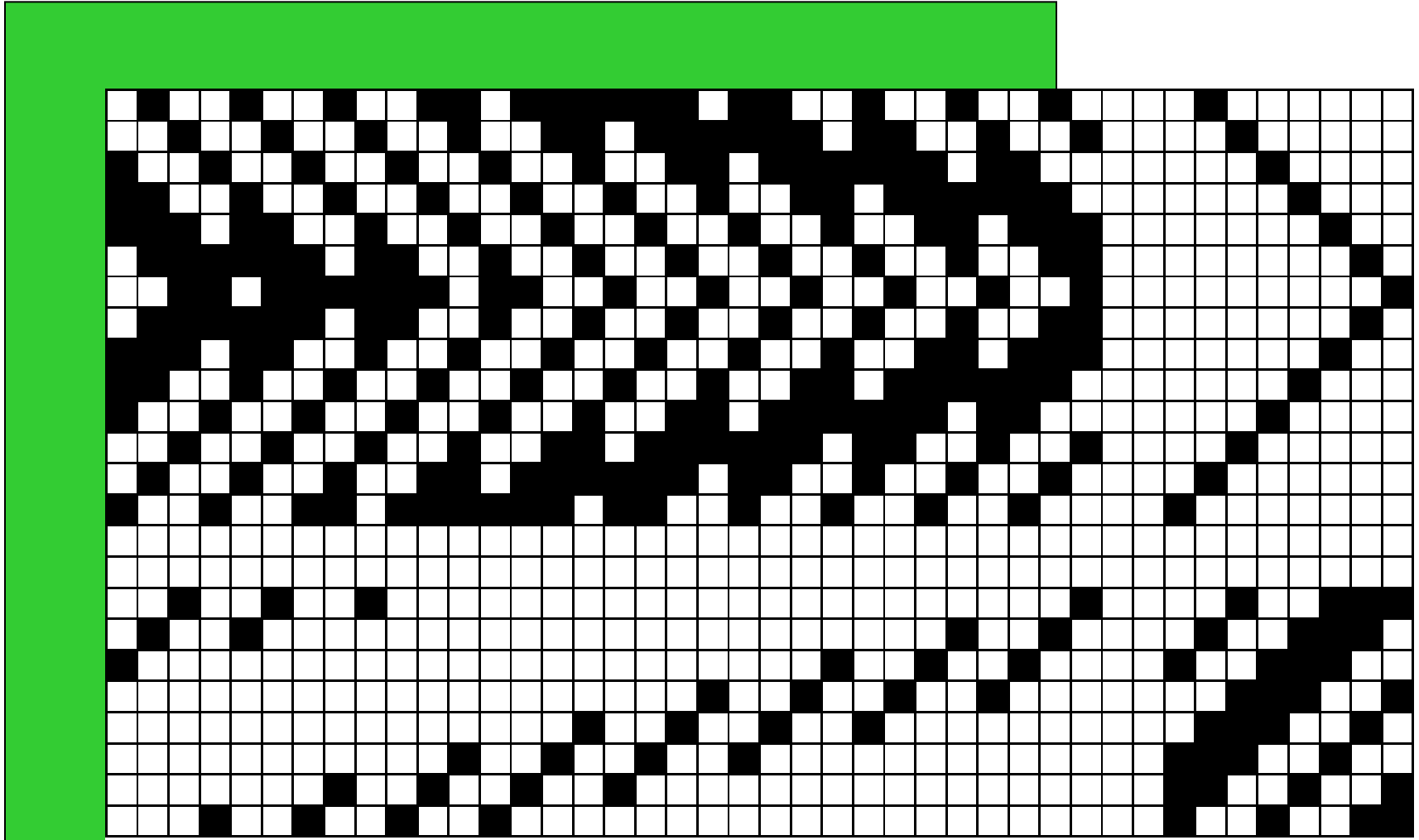


Lainetoimne





# b. Tuletatud kangad



Astangtoimne

# b. Tuletatud kangad

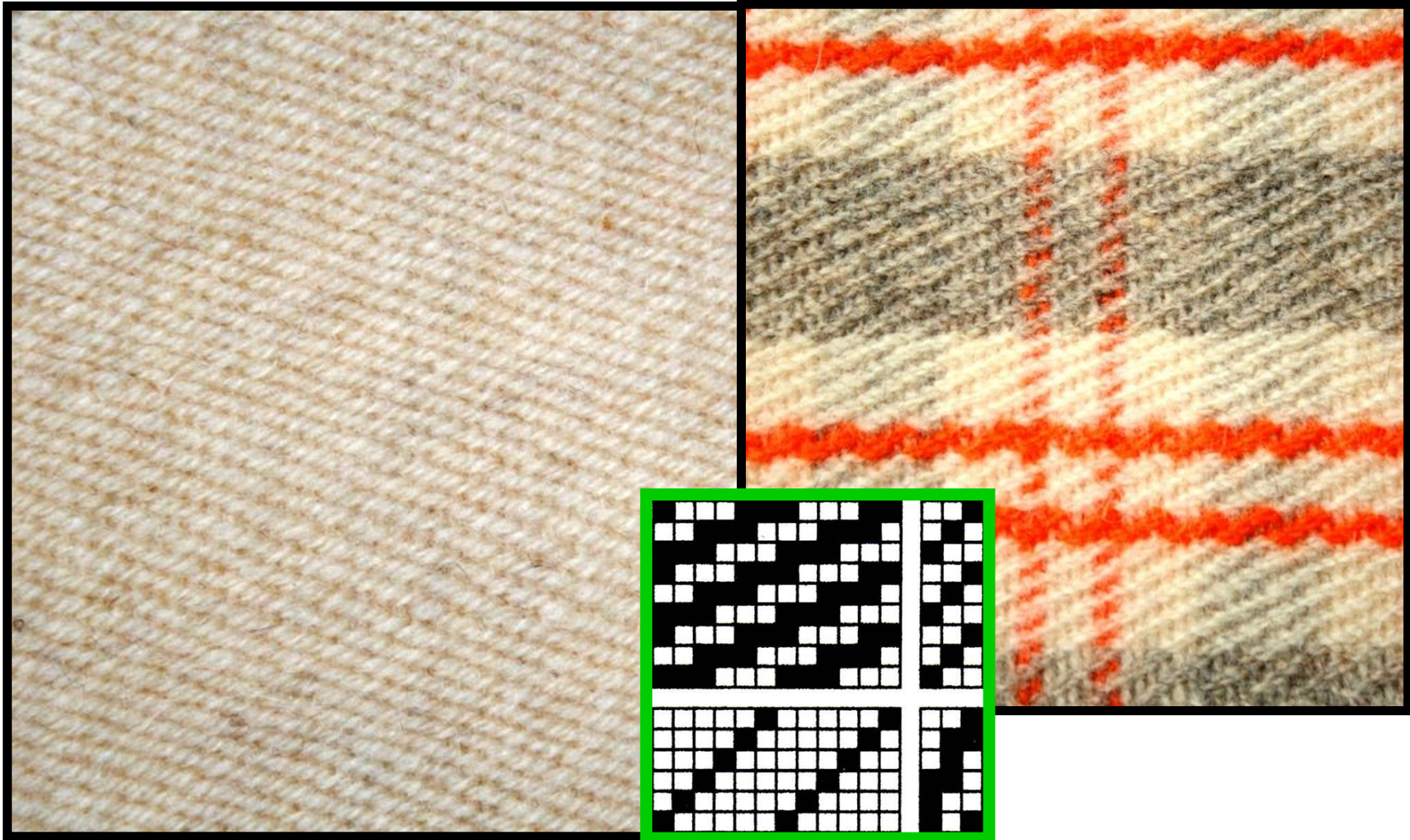


Astangtoimne

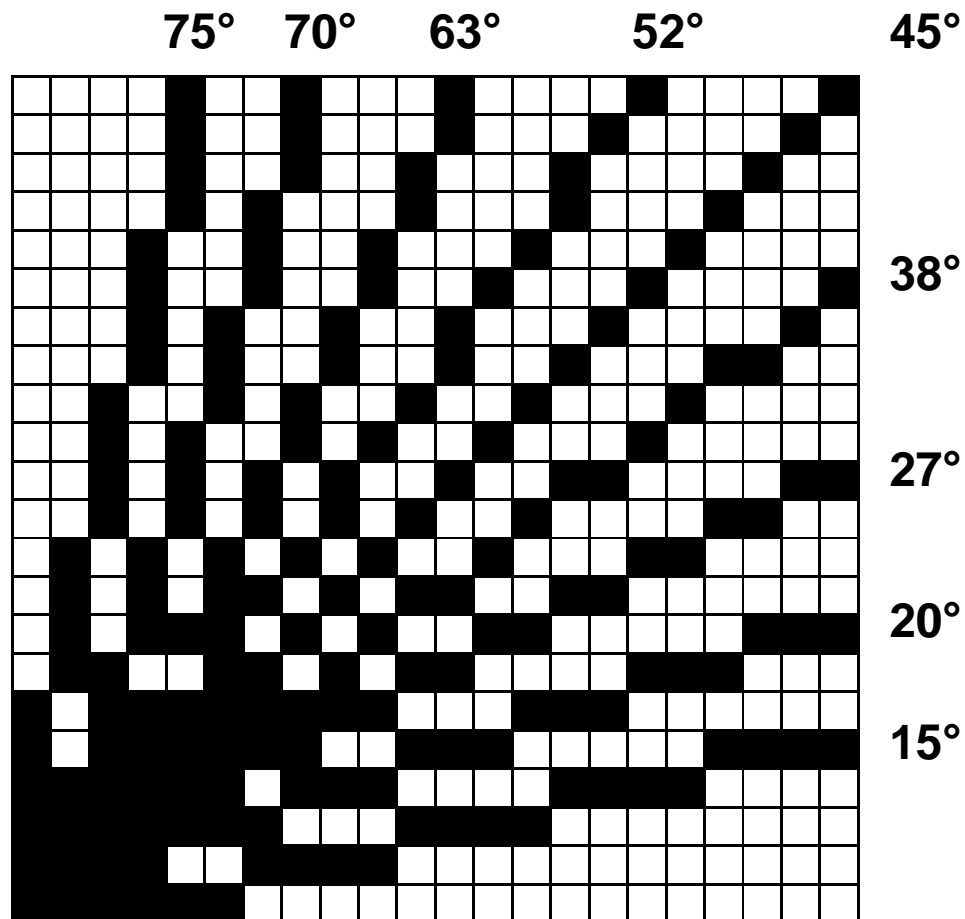


# b. Tuletatud kangad

## Viltutoimne

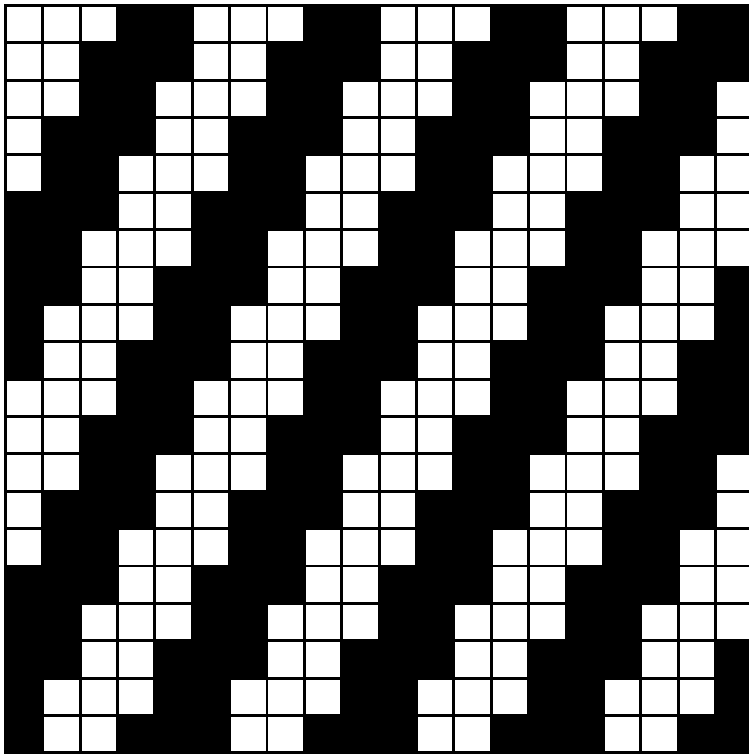


# Toimejoone astmete tabel

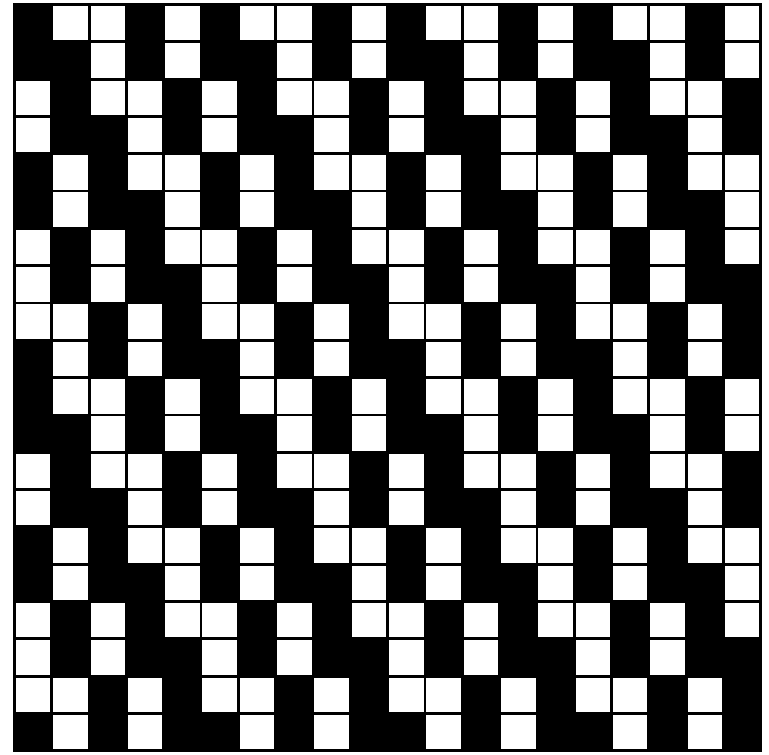


# Toimejooned astmete tabeli alusel

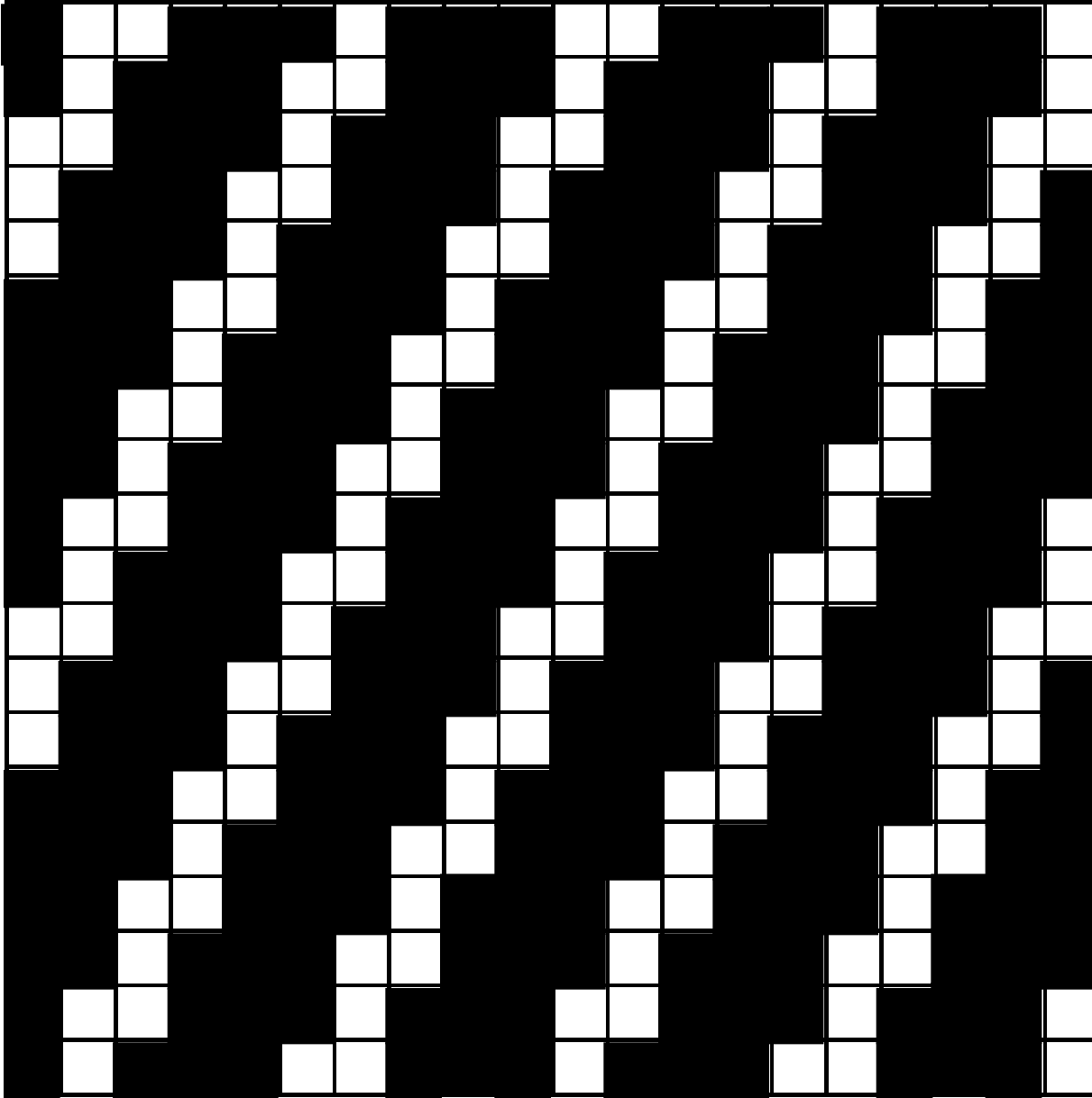
**+ 2**



**- 2**



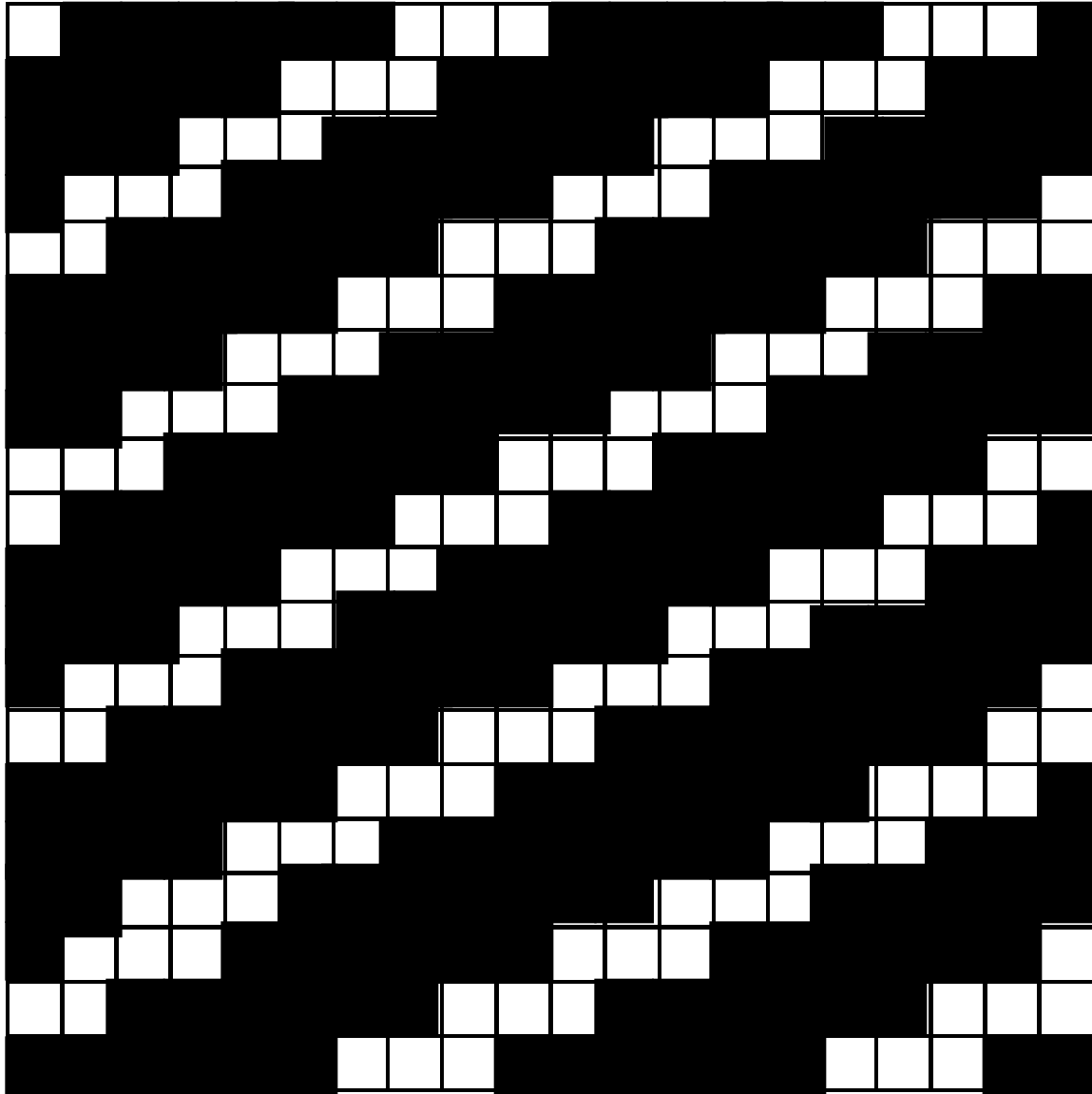
$$\frac{6}{3} + 2$$



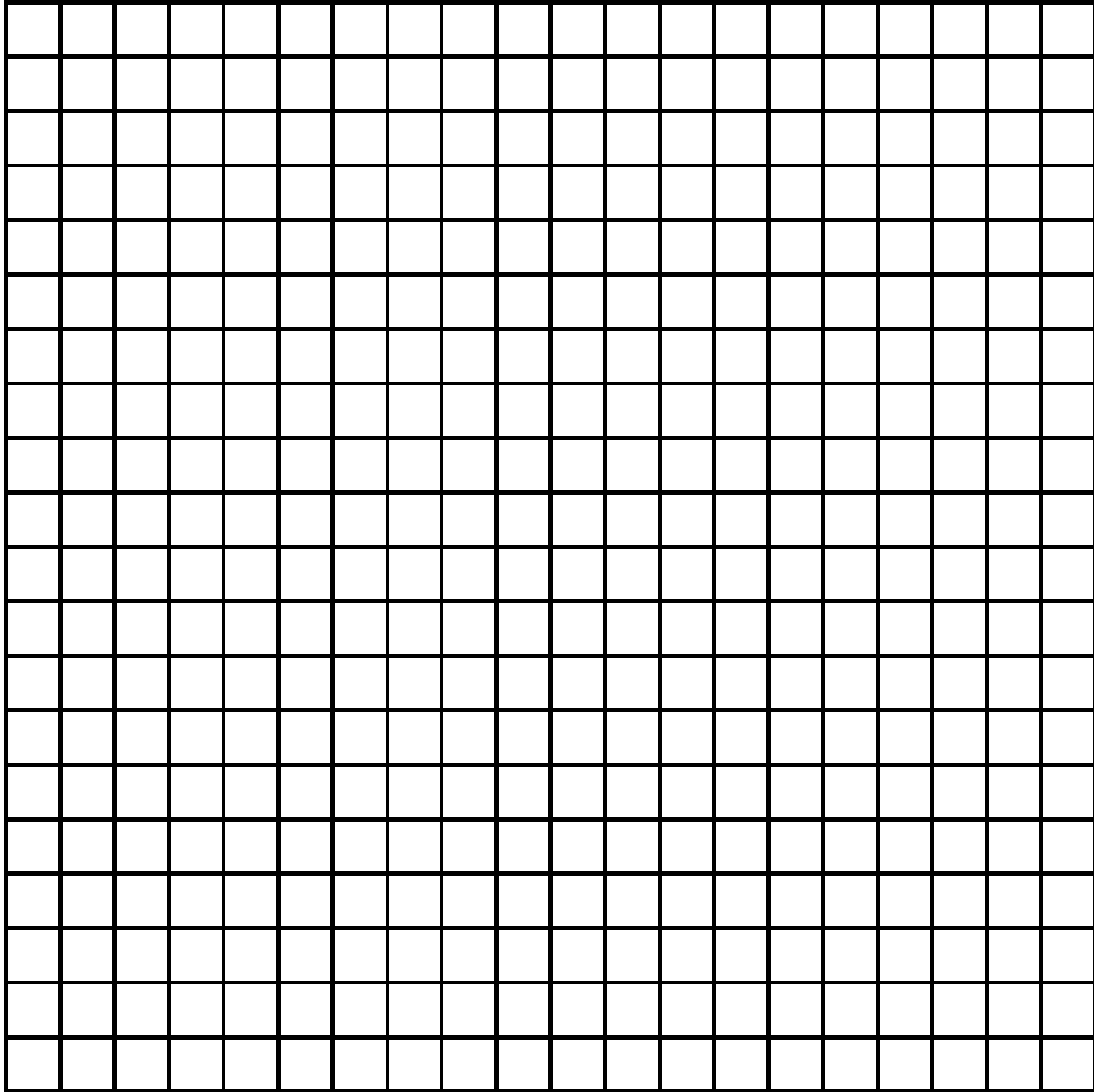
63°

$$\frac{6}{3} + 2$$

27°



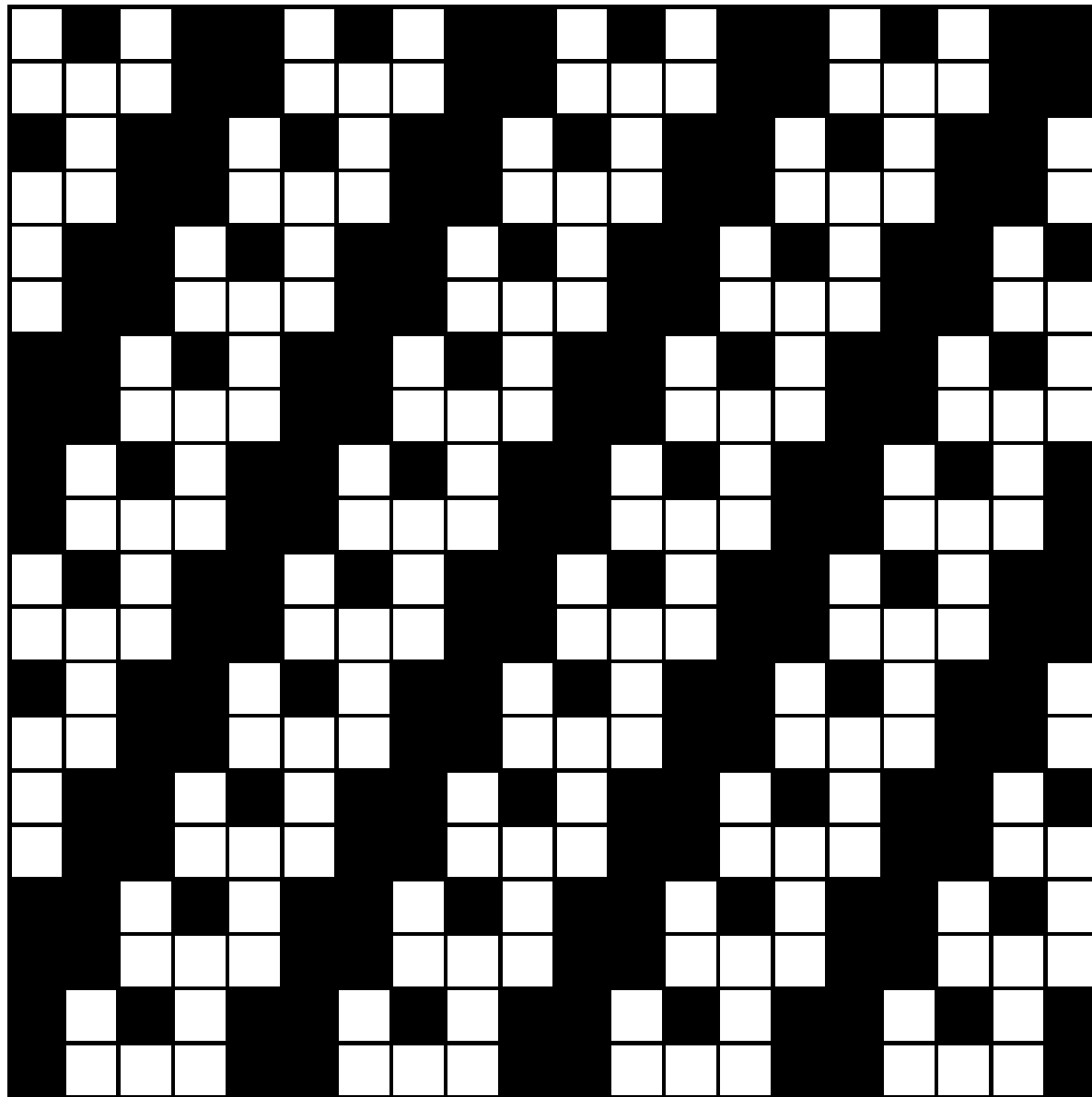
$$\frac{4}{3} \frac{1}{2} + 2$$



63°



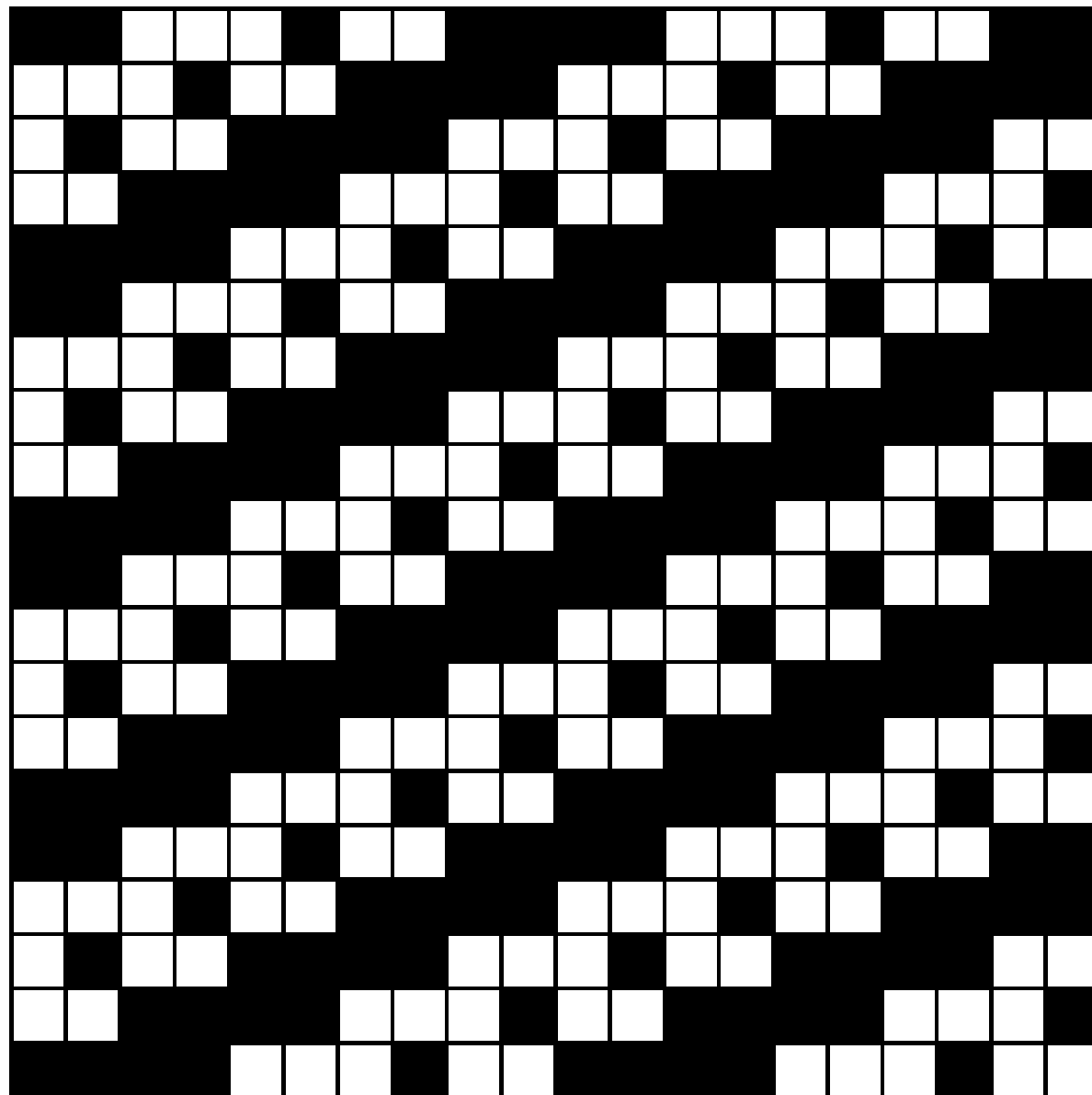
$$\frac{4 \ 1}{3 \ 2} + 2$$



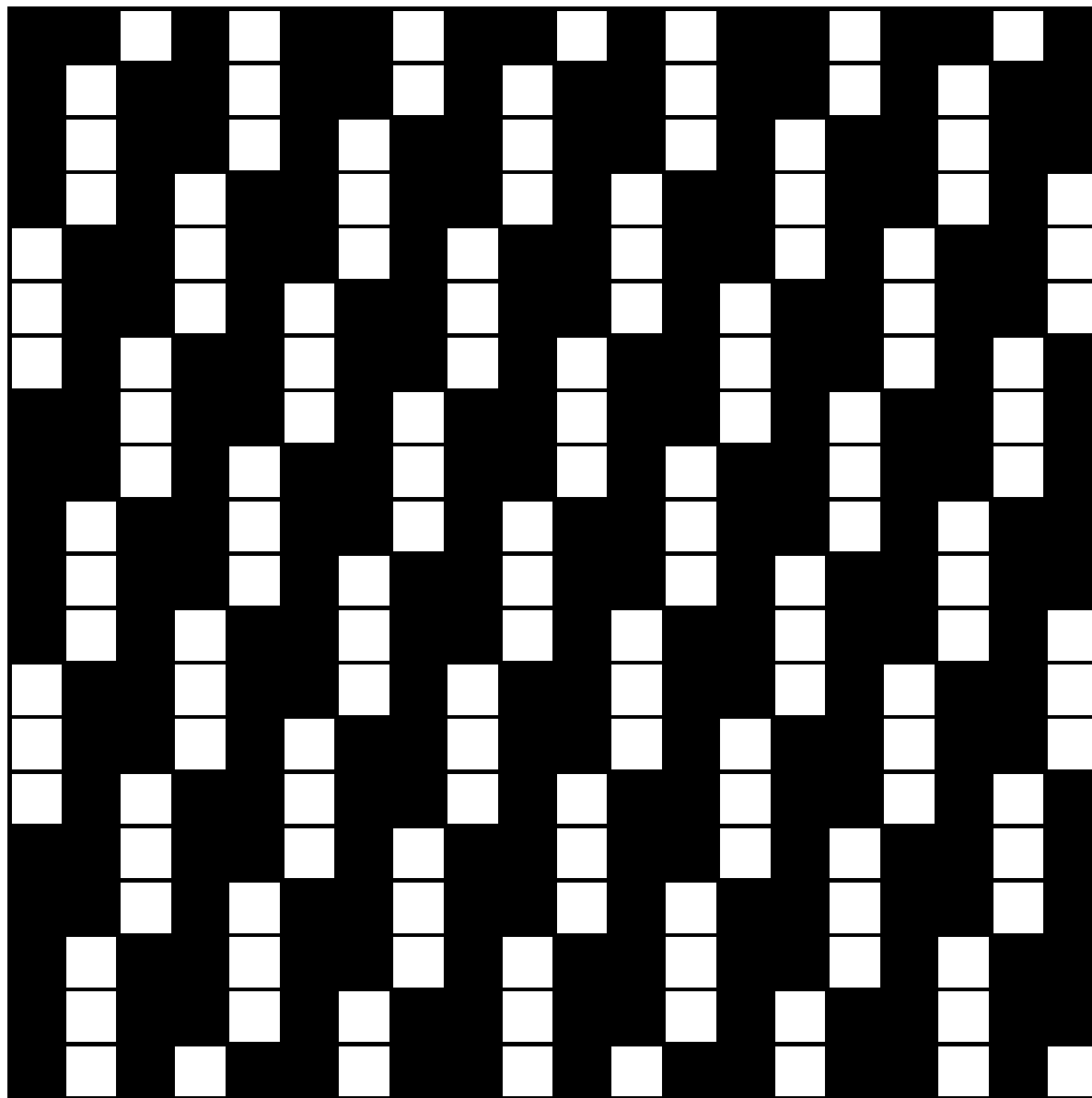
63°

$$\frac{4 \ 1}{3 \ 2} + 2$$

27°

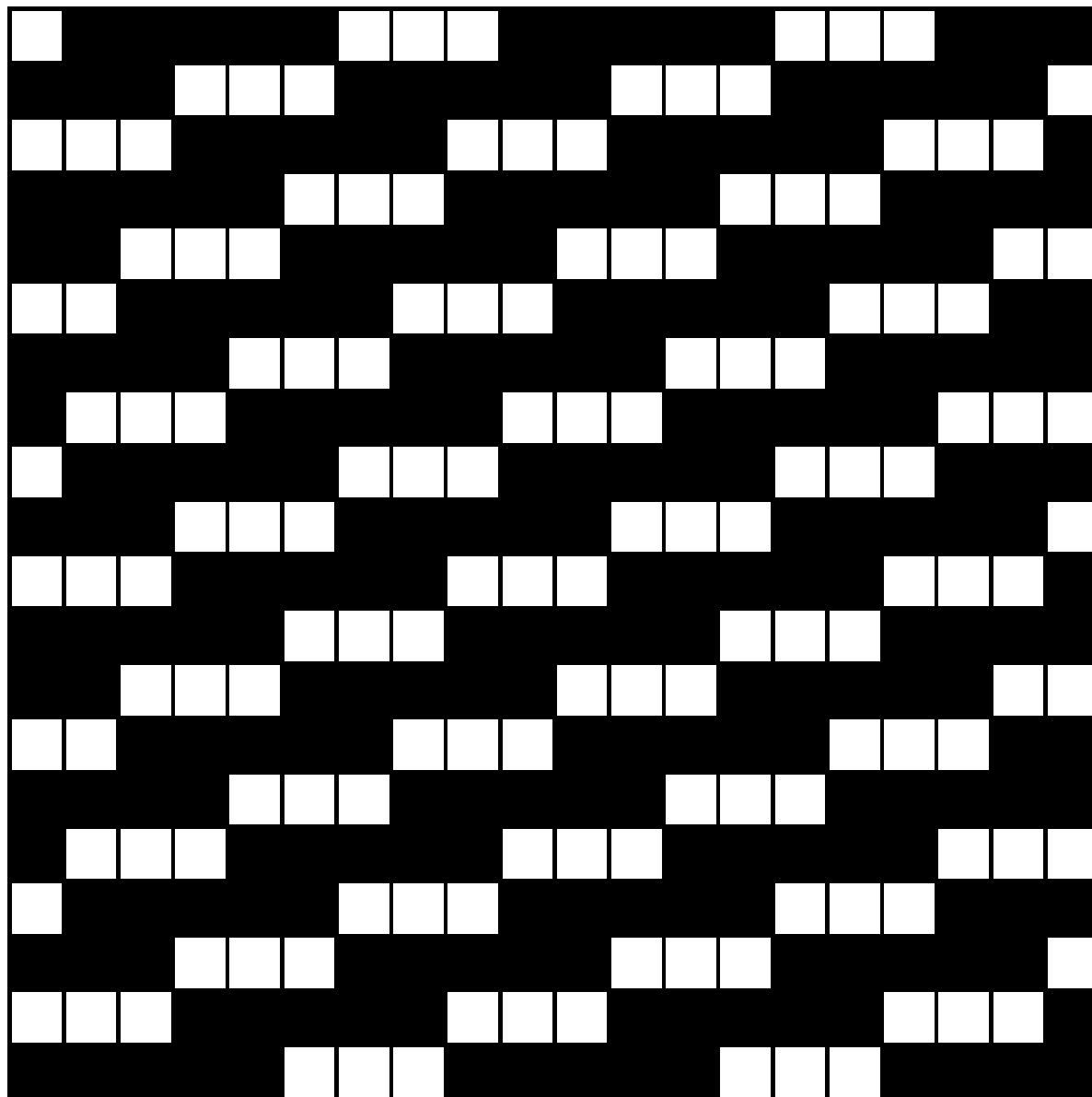


$$\frac{5}{3} + 3$$



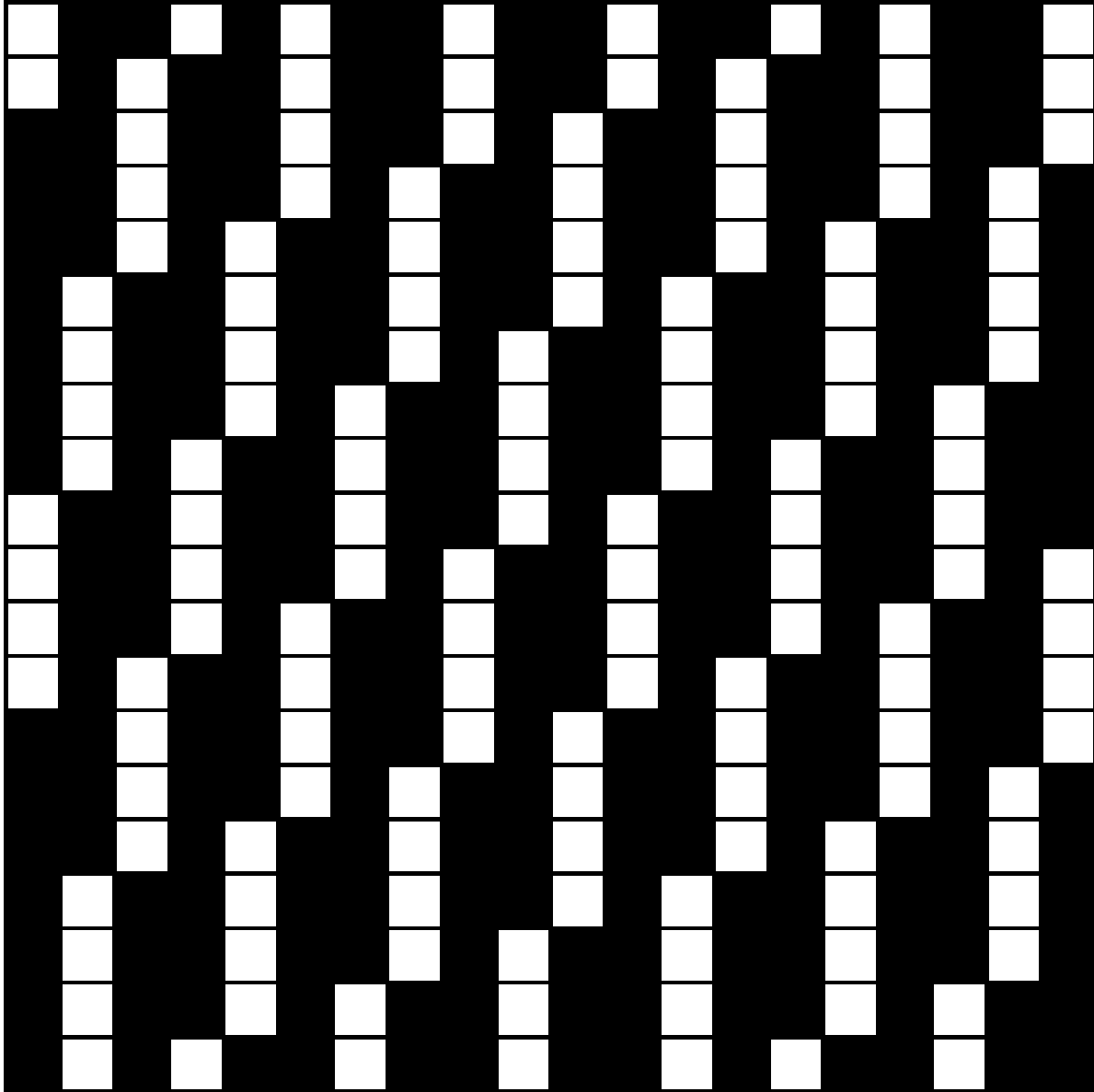
70°

$$\frac{5}{3} + 3$$



20°

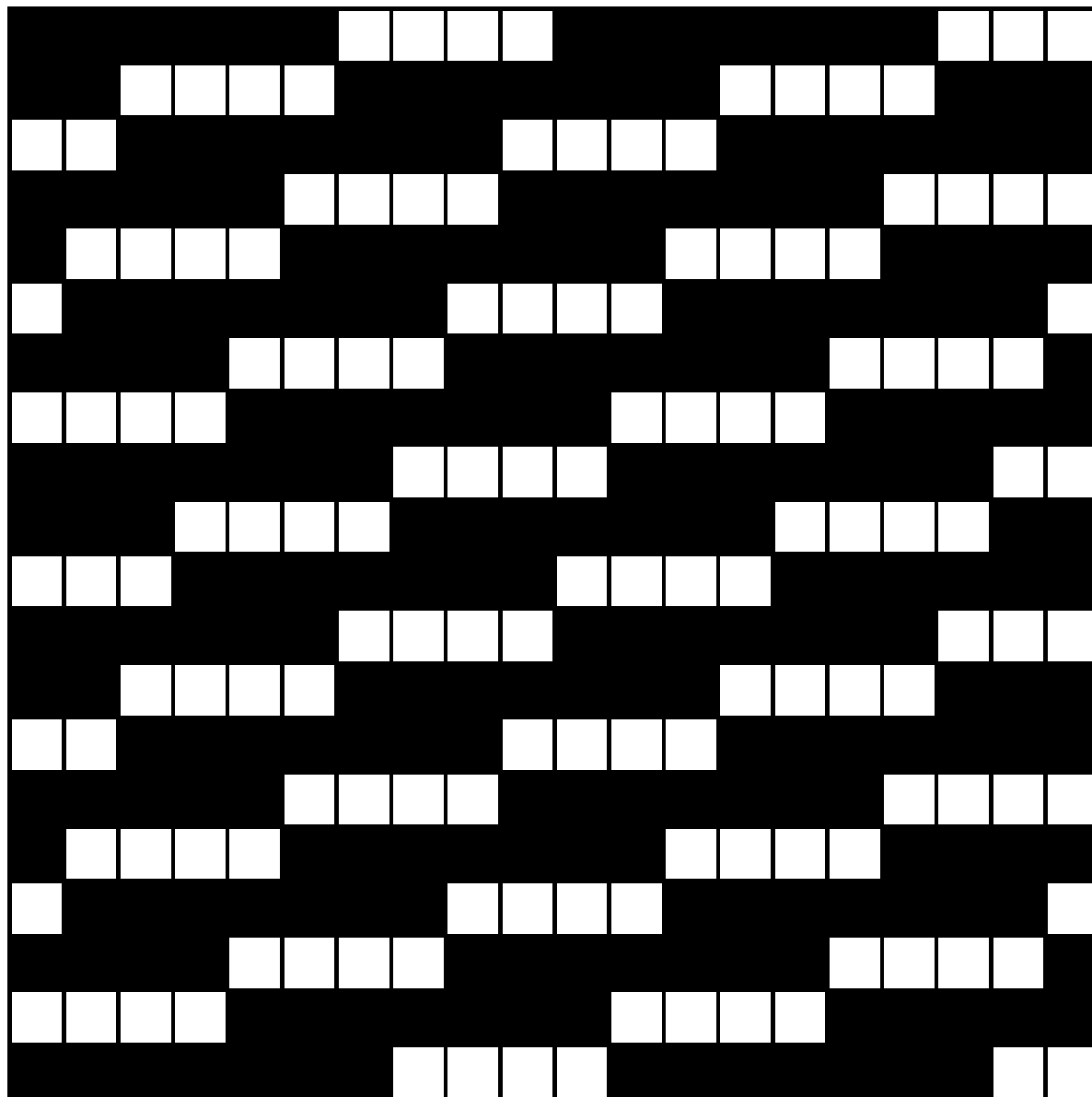
$$\frac{7}{4} + 4$$



75°

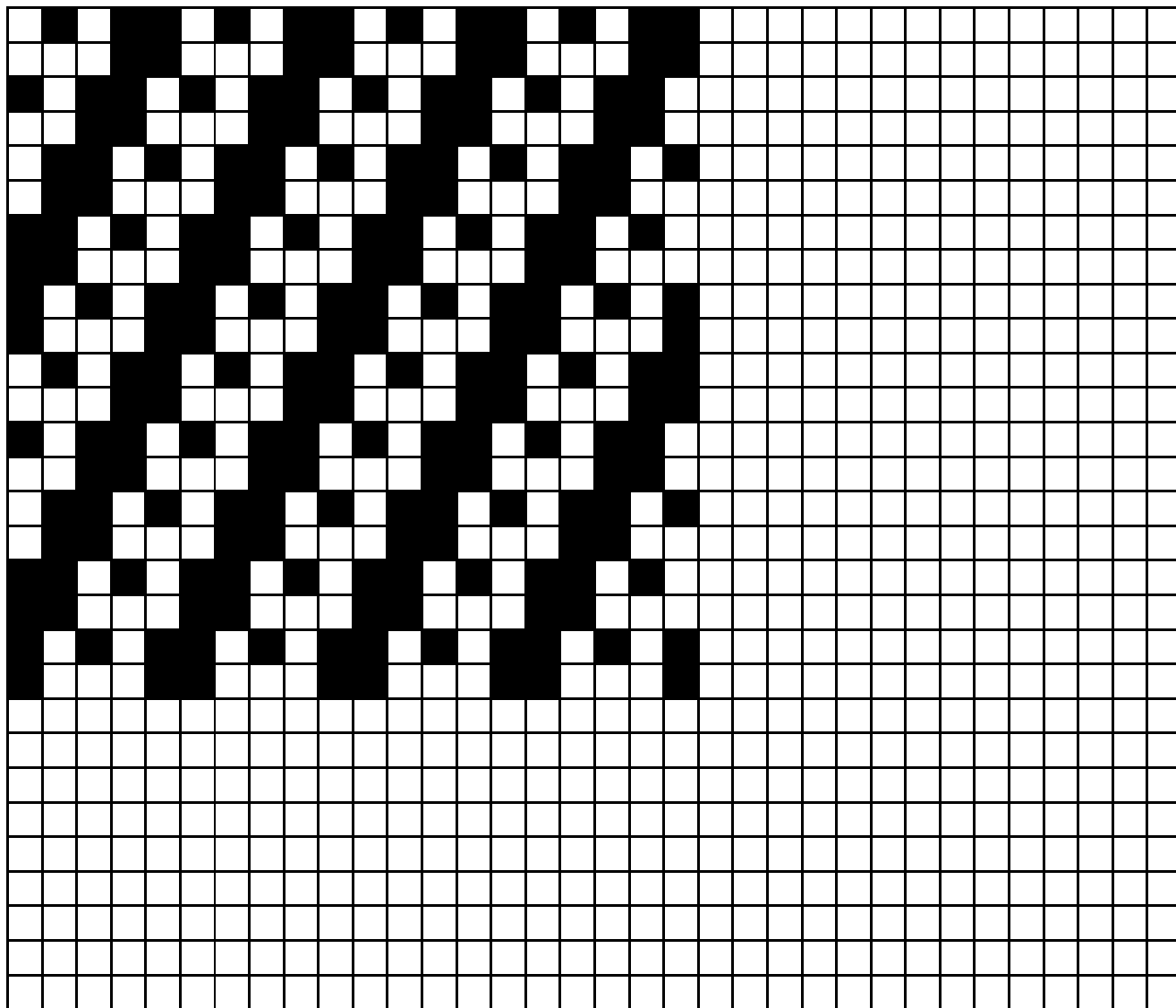
$$\frac{7}{4} + 4$$

15°



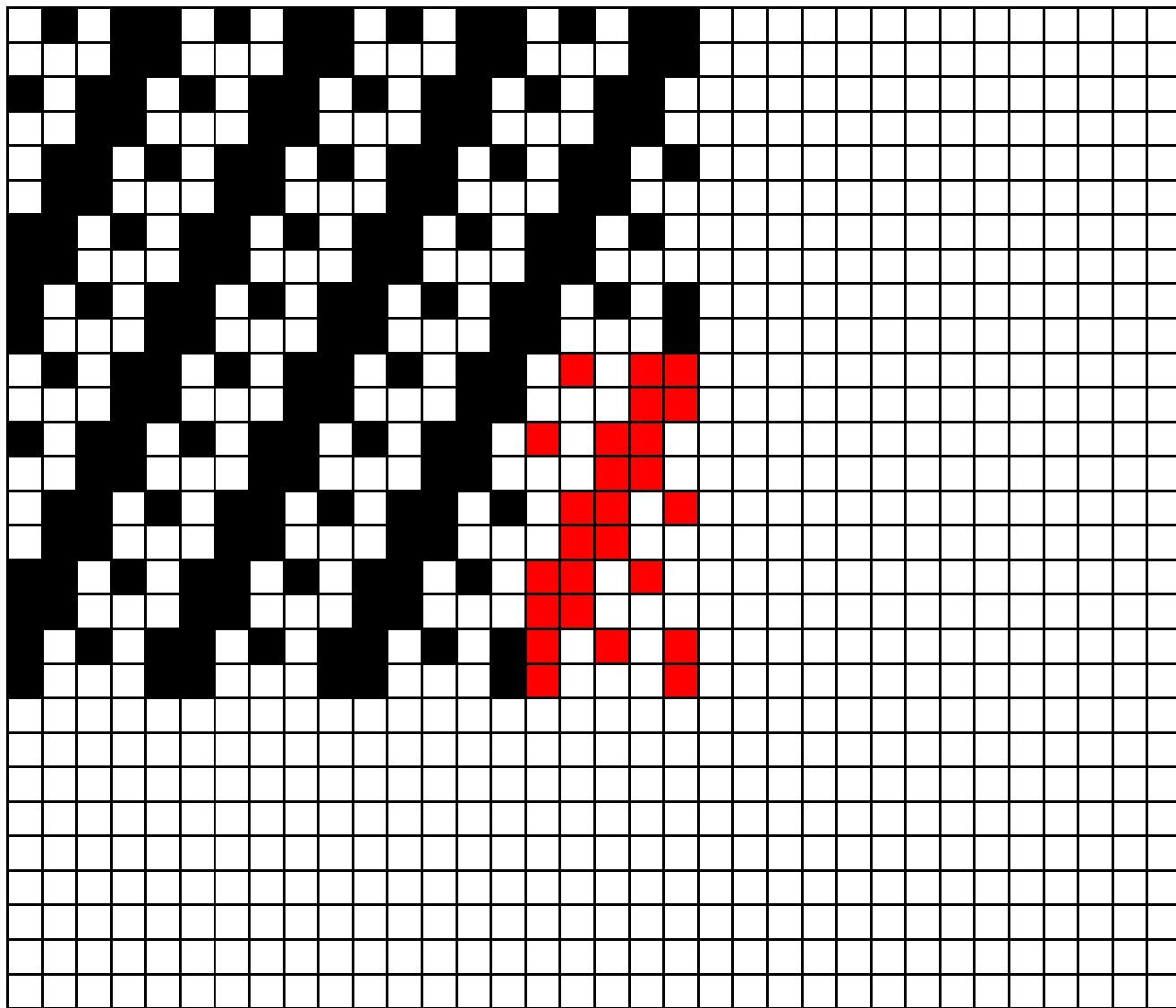
$$\frac{4}{3} \frac{1}{2} + 2$$

63°



$$\frac{4}{3} \frac{1}{2} + 2$$

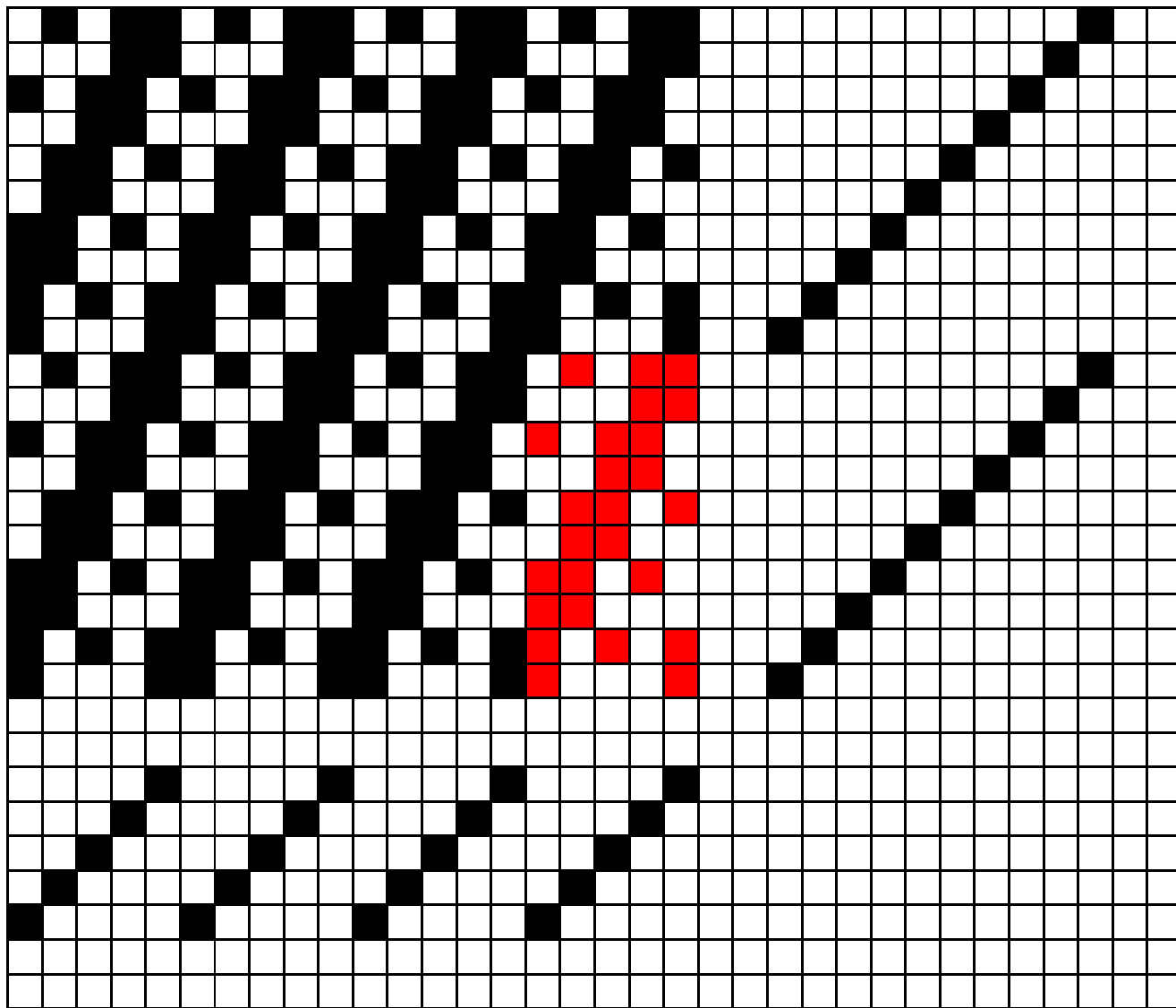
63°





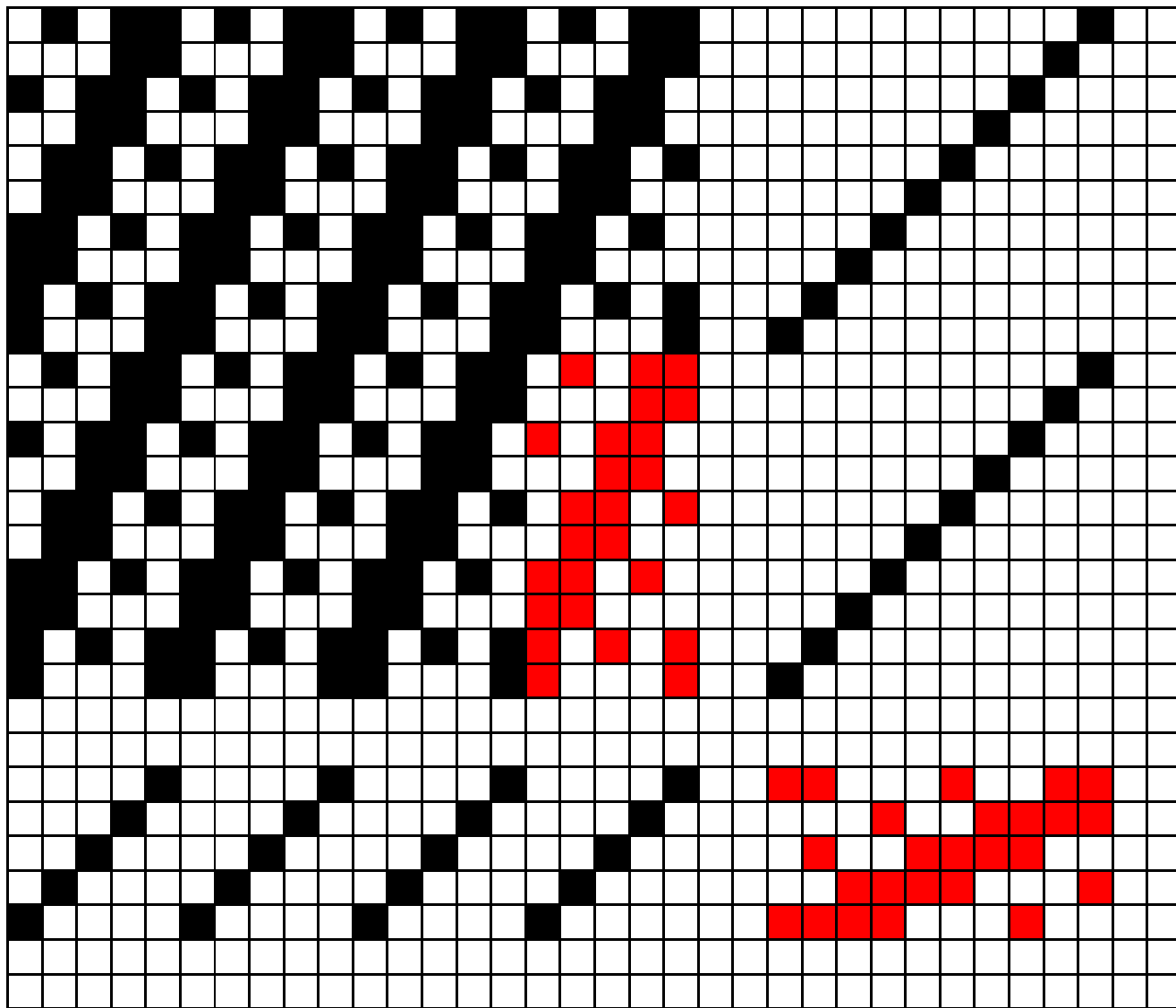
$$\frac{4}{3} \frac{1}{2} + 2$$

63°



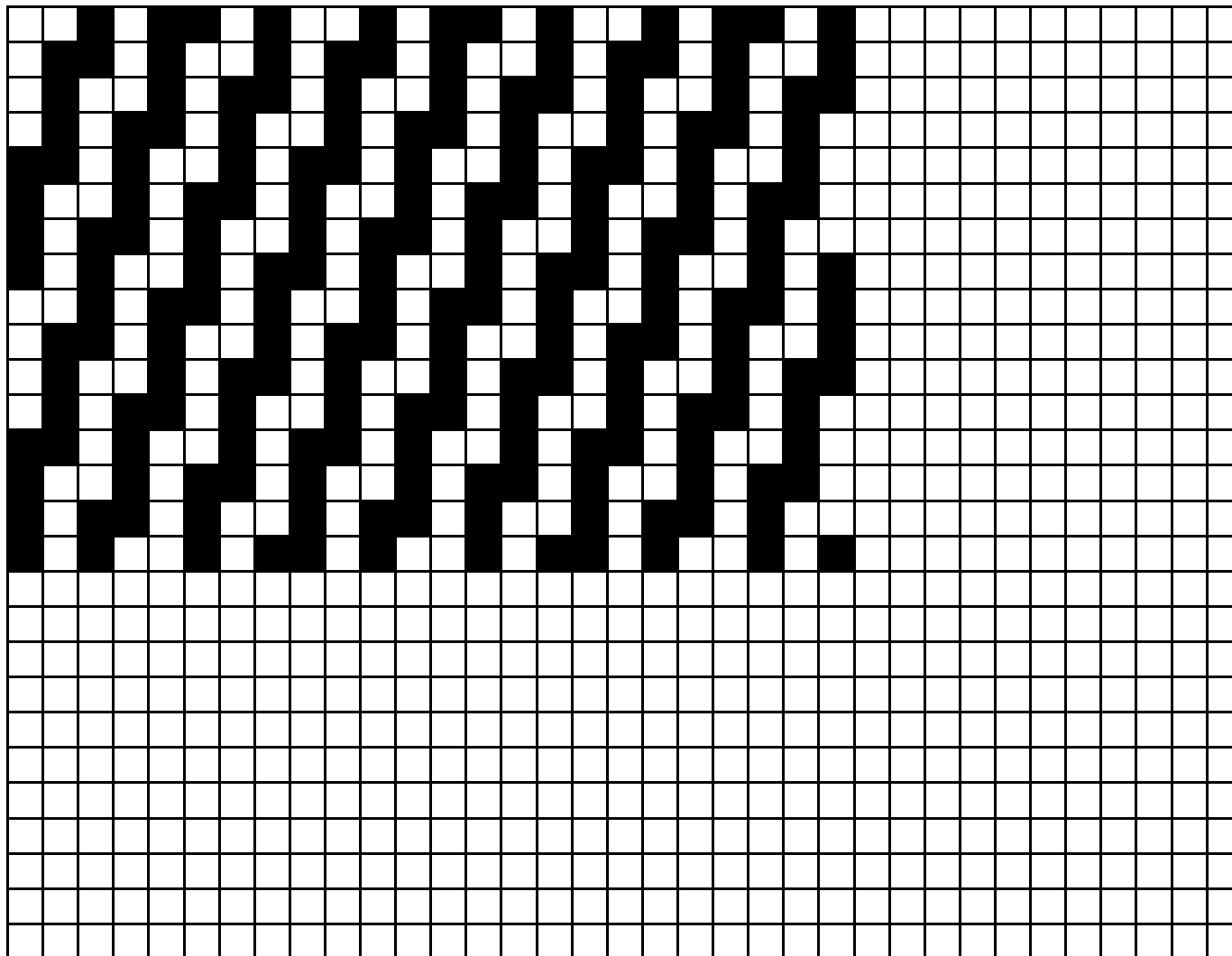
$$\frac{4}{3} \frac{1}{2} + 2$$

63°



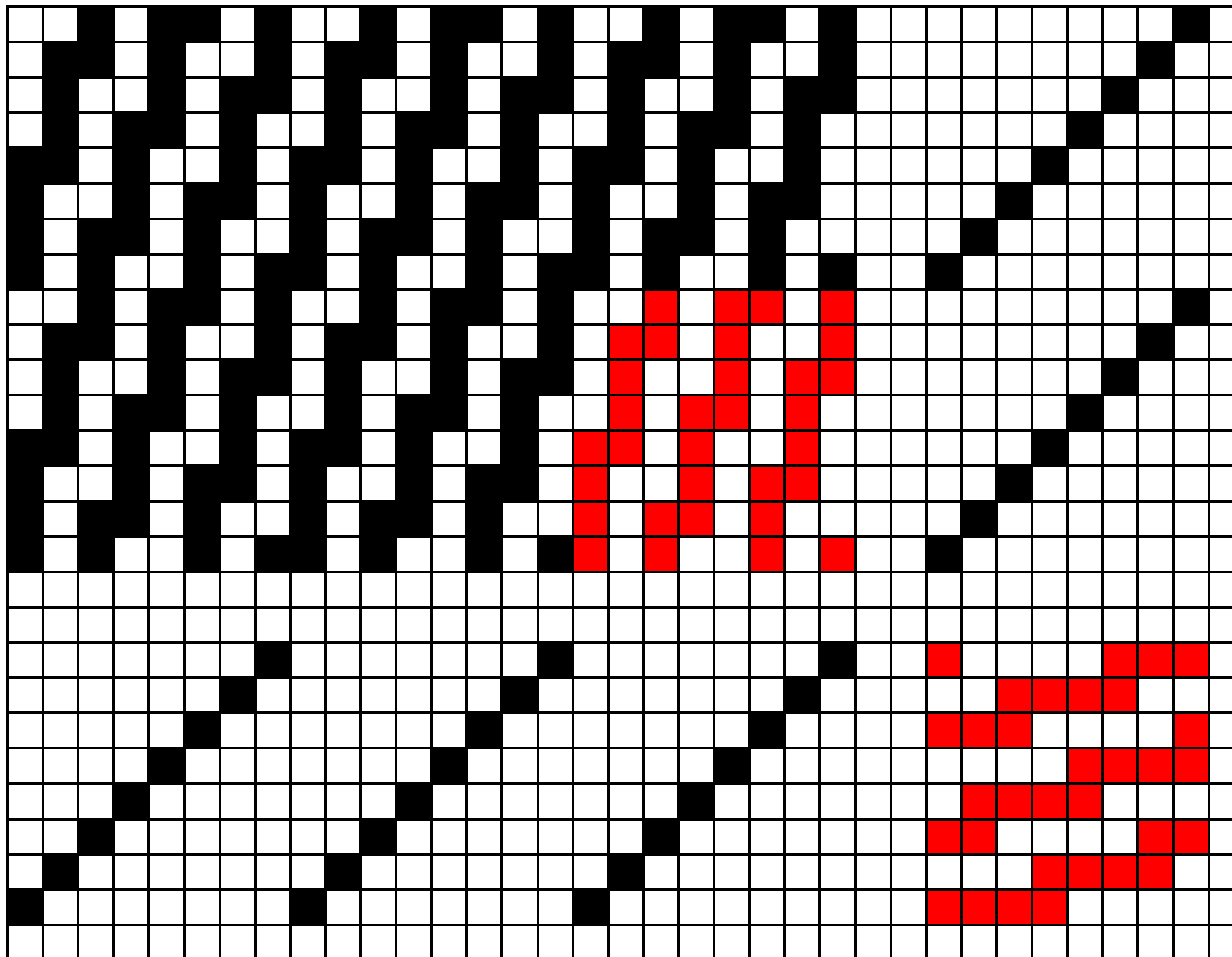
$$\frac{4}{4} + 3$$

70°



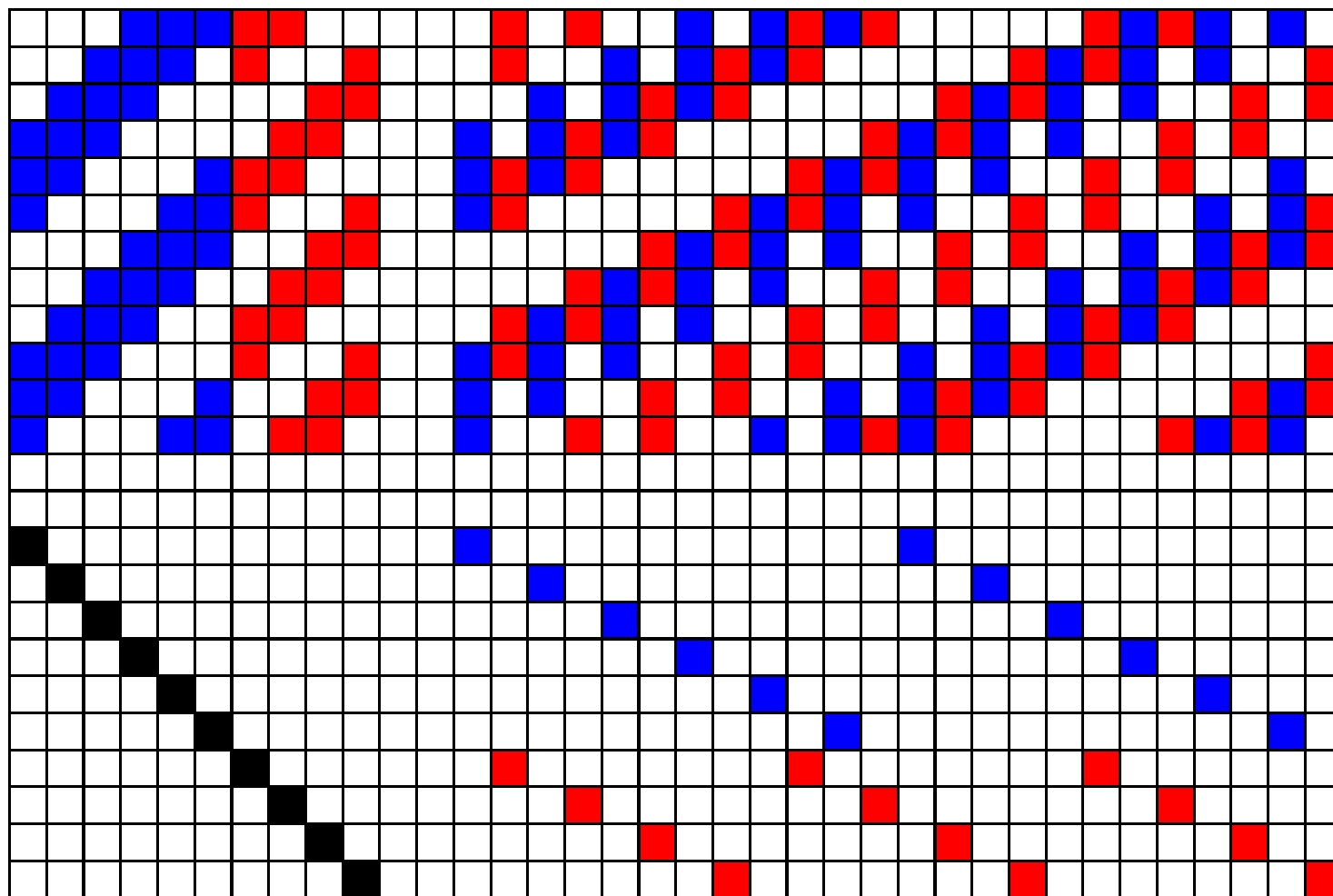
$$\frac{4}{4} + 3$$

70°

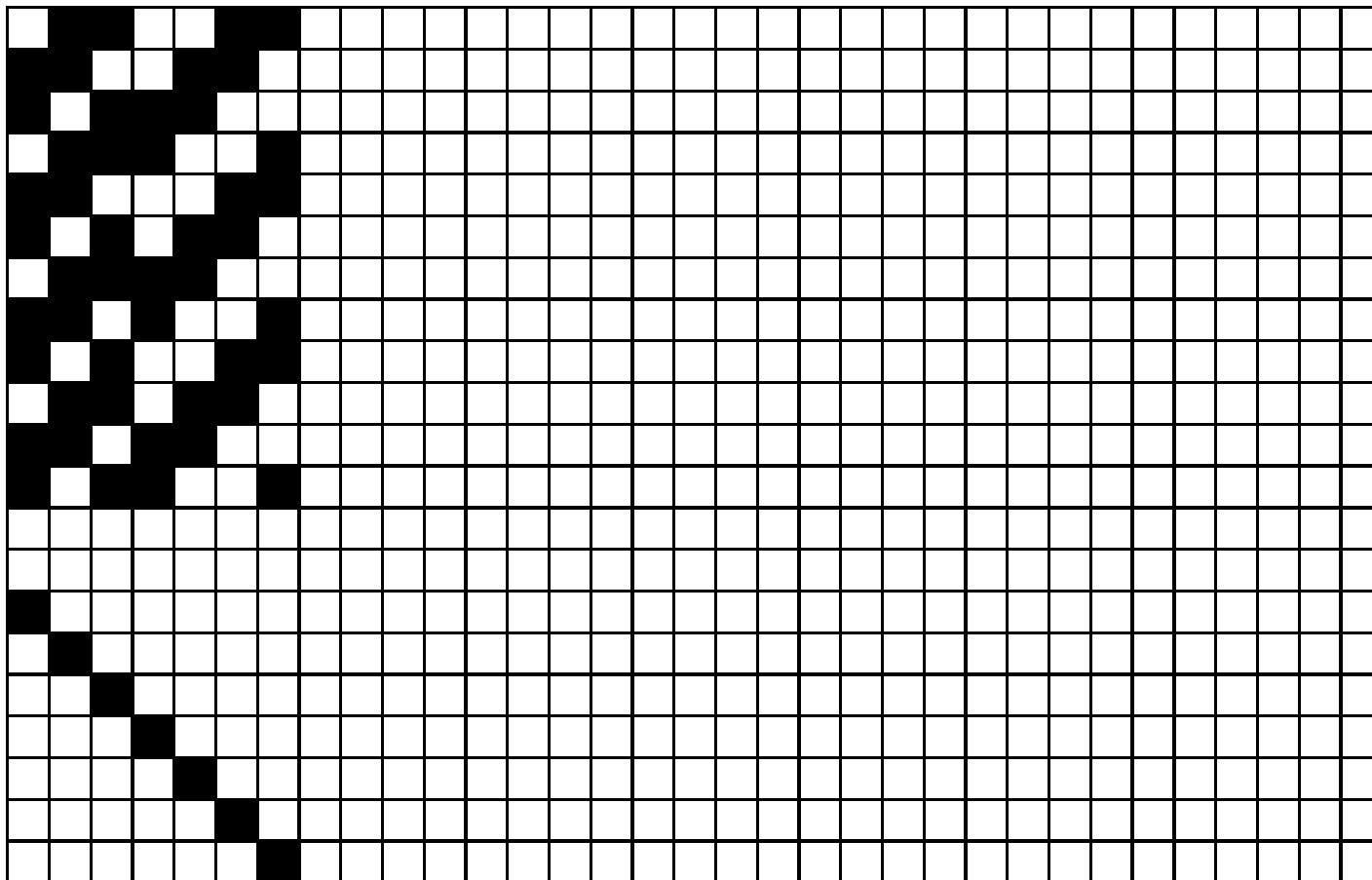








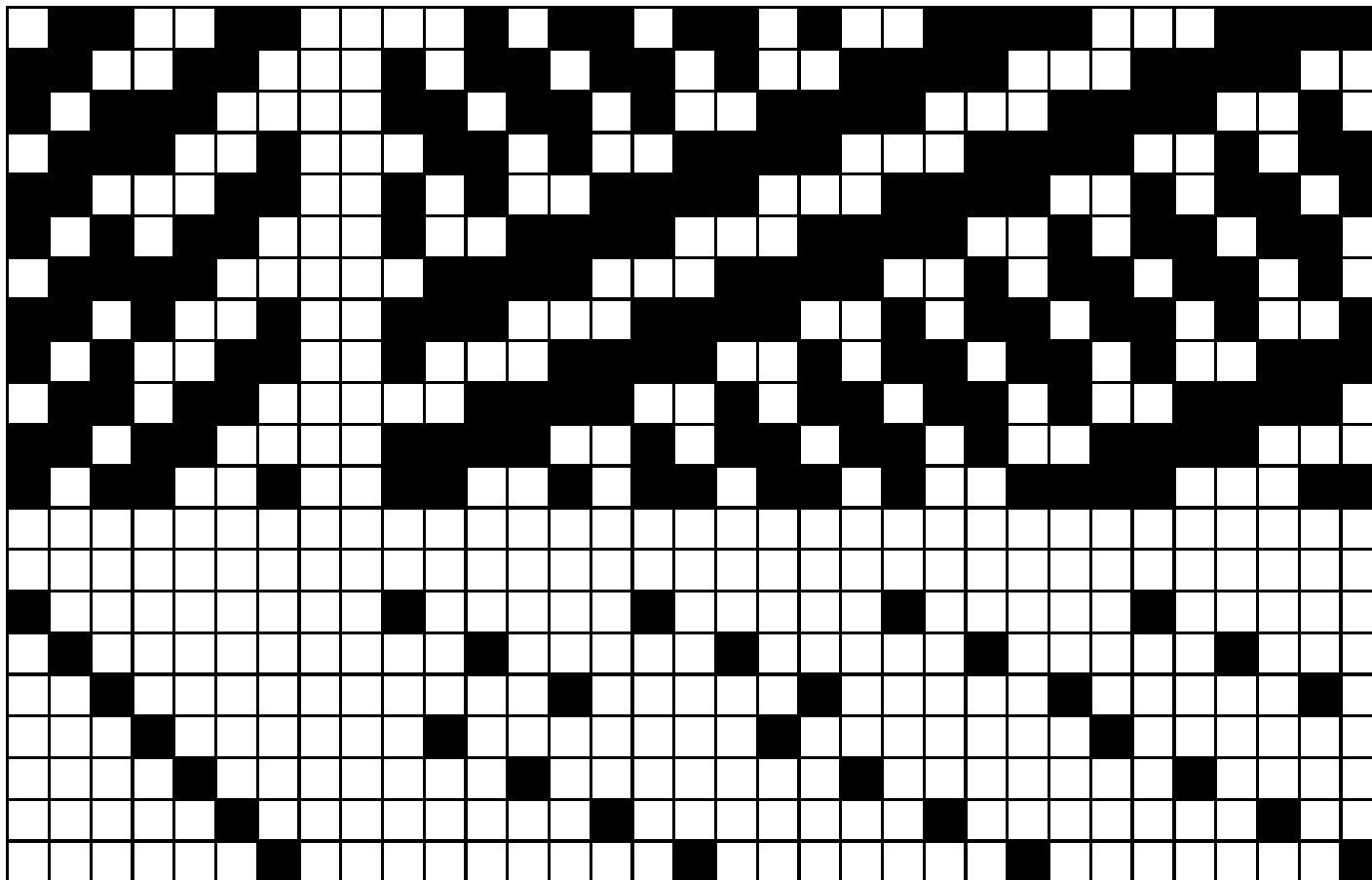
# Märgi kanga kiri ja hajuniietlus!



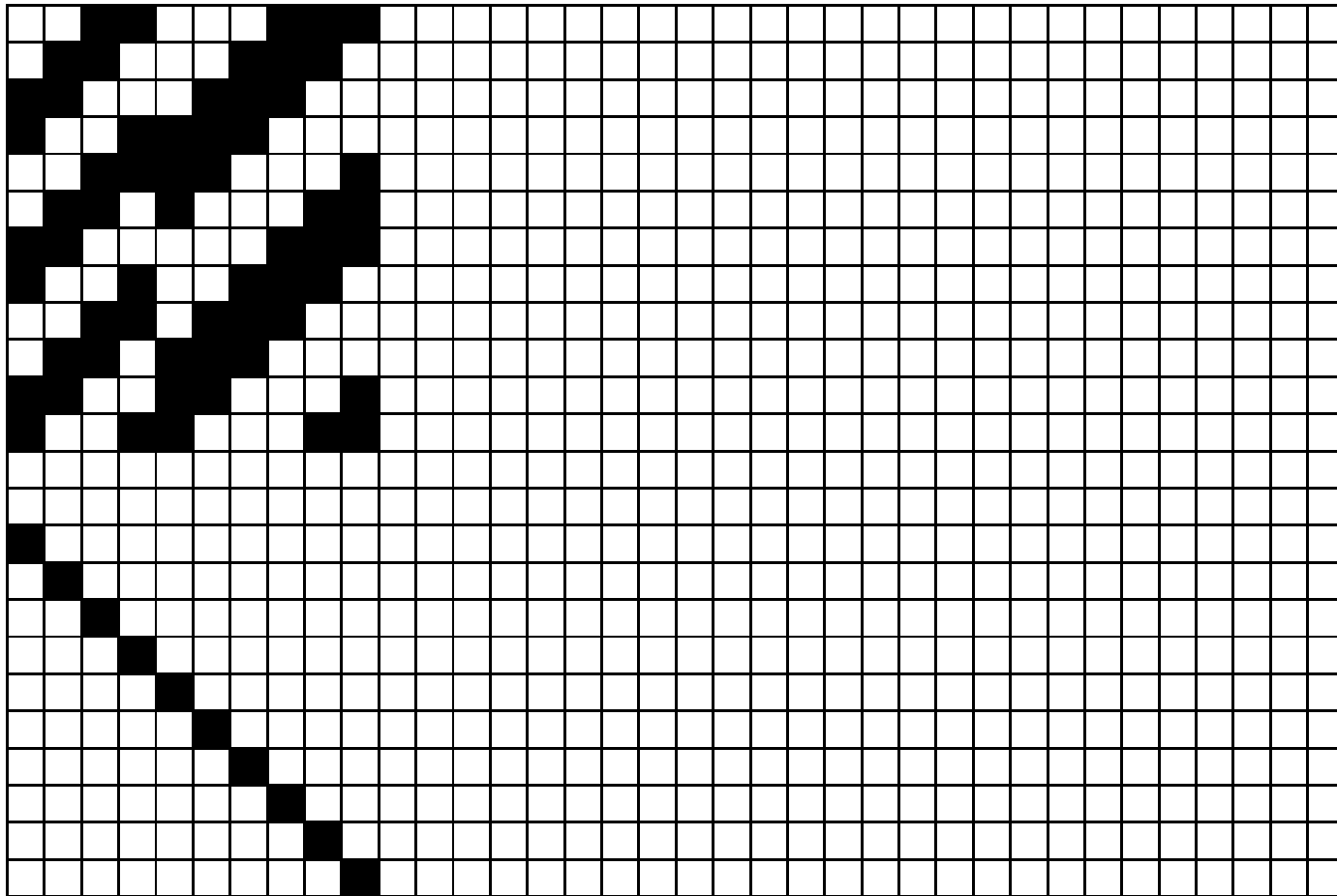




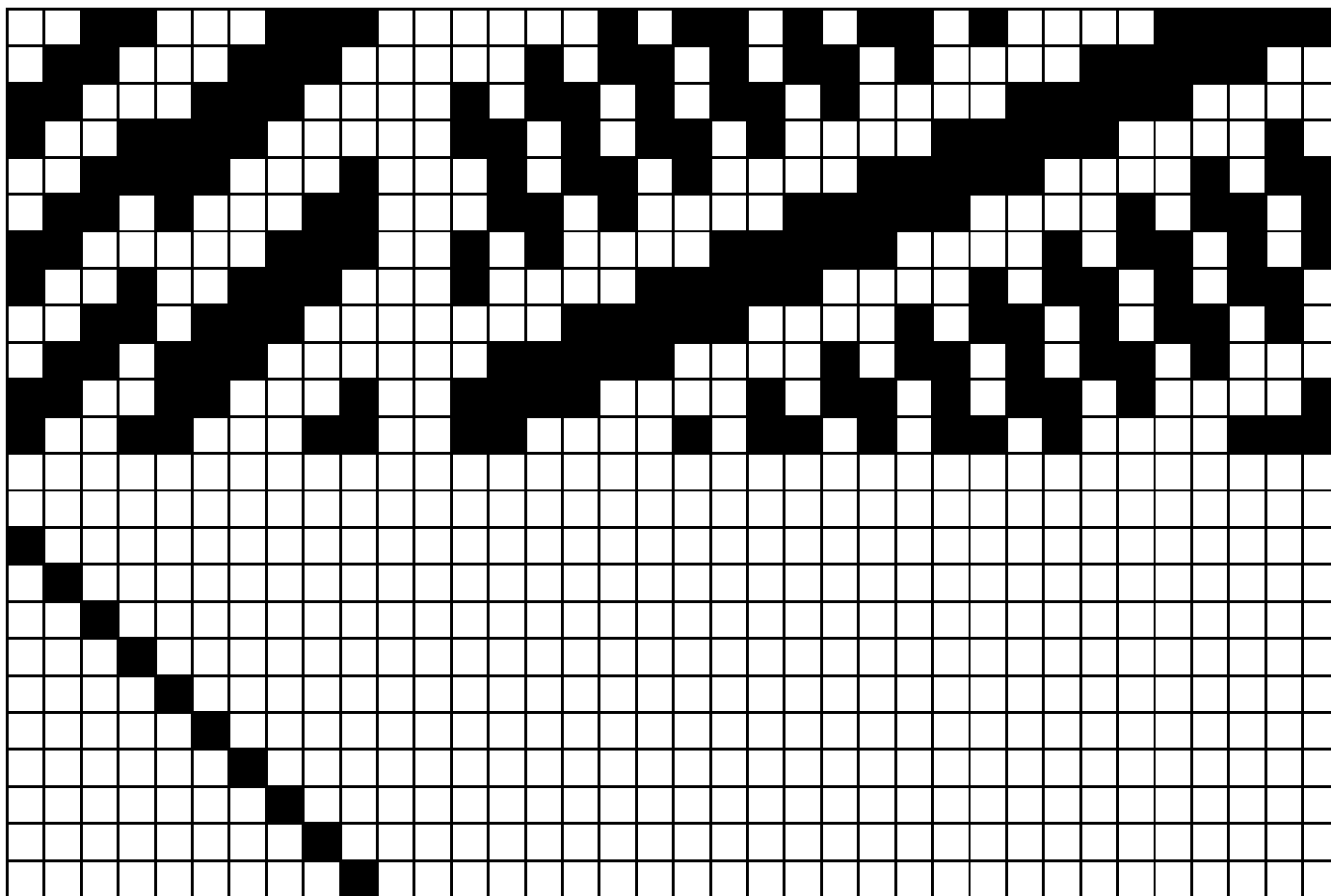
# Märgi kanga kiri ja hajuniietlus!



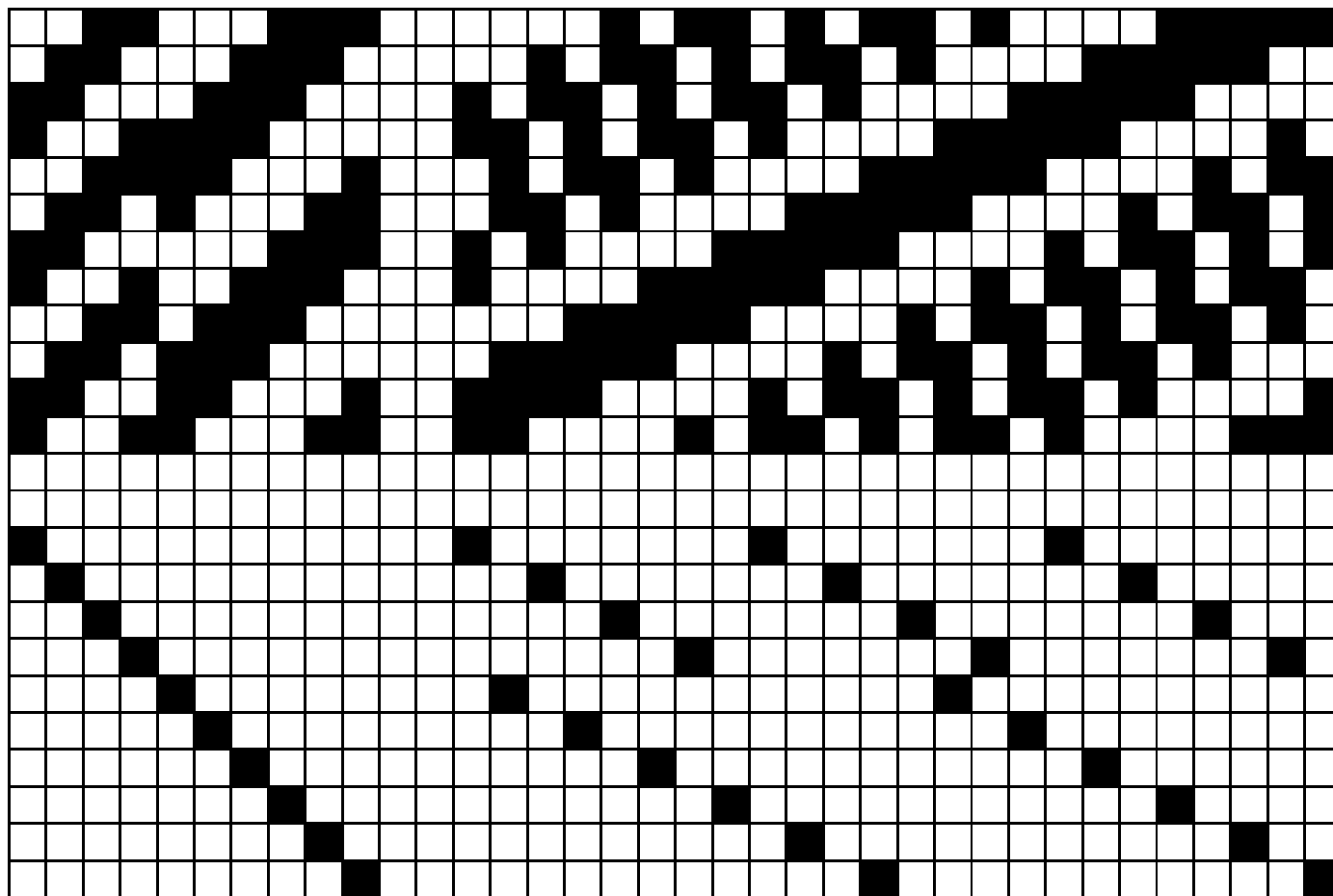
# Märgi kanga kiri ja hajuniietlus!



# Märgi kanga kiri ja hajuniietlus!

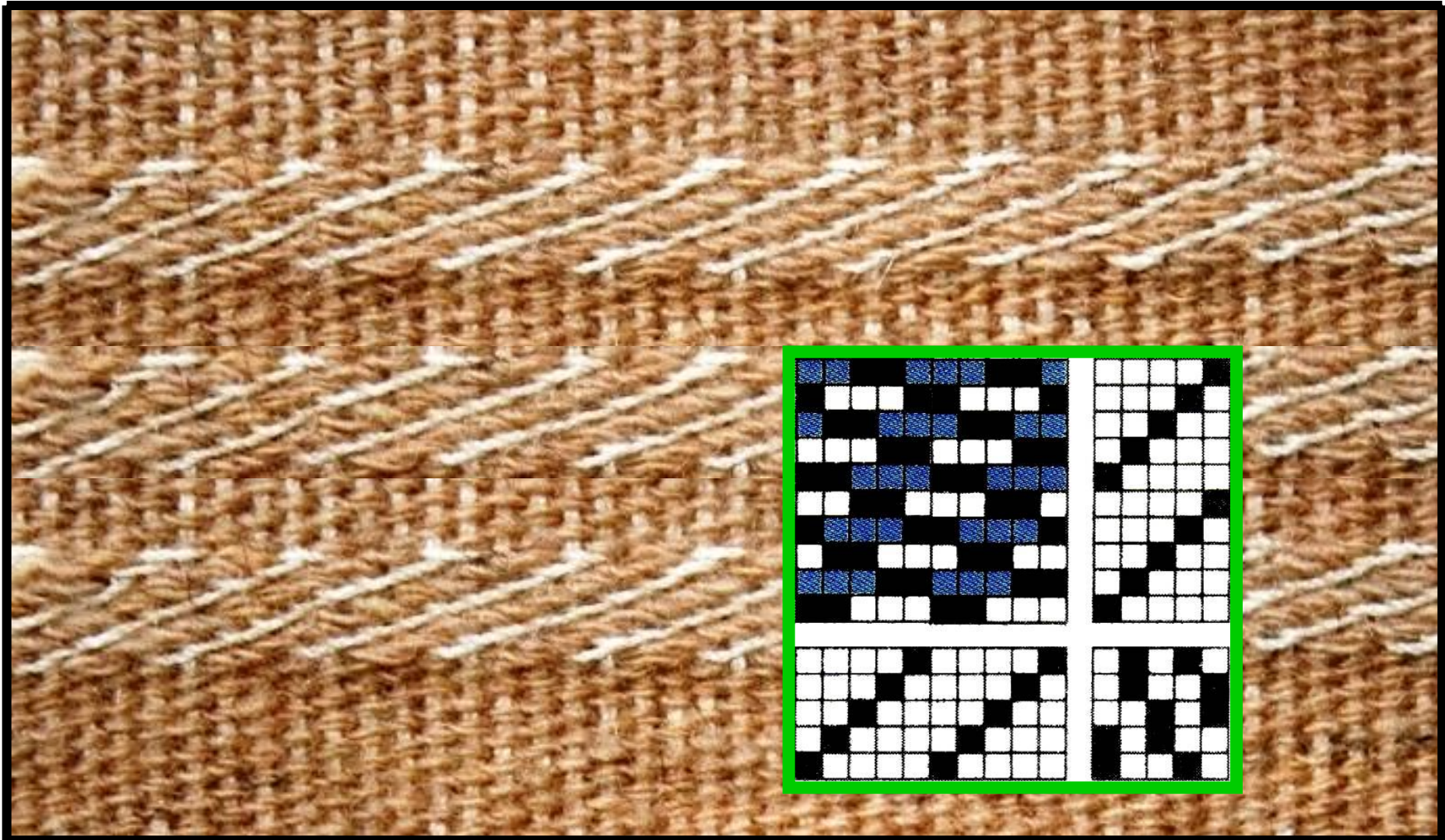


# Märgi kanga kiri ja hajuniietlus!



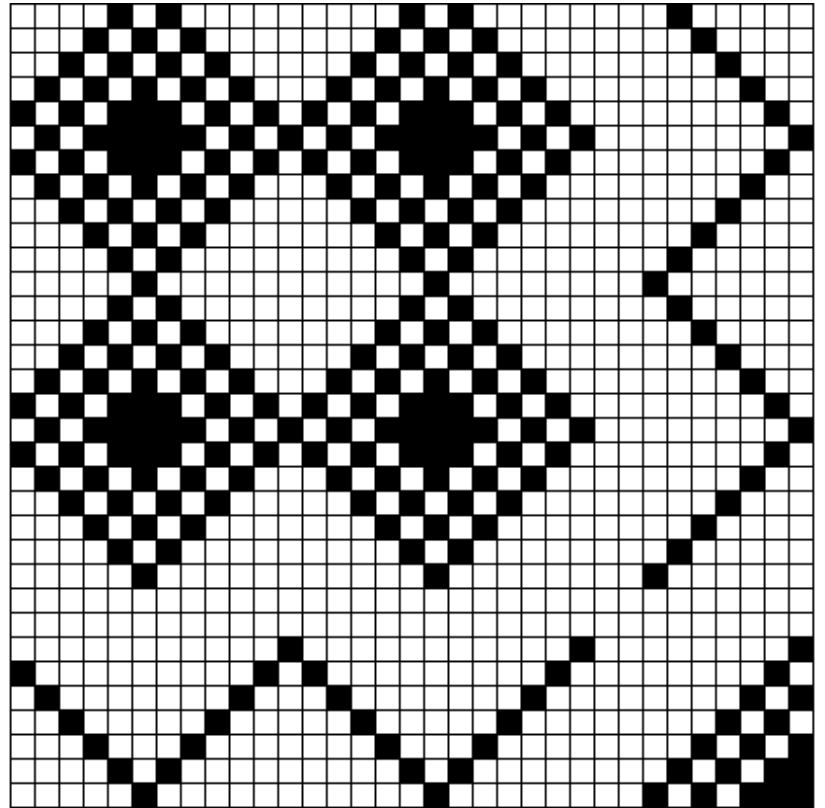
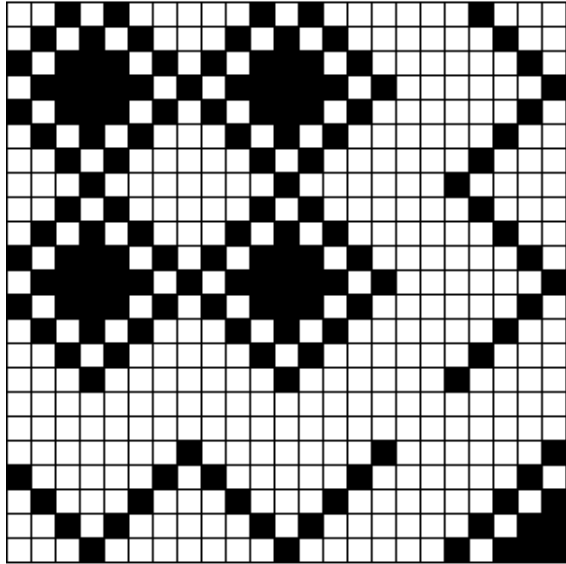
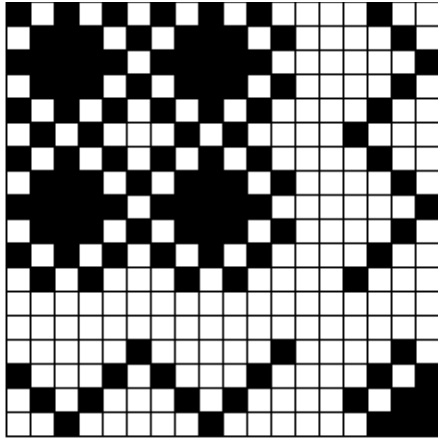
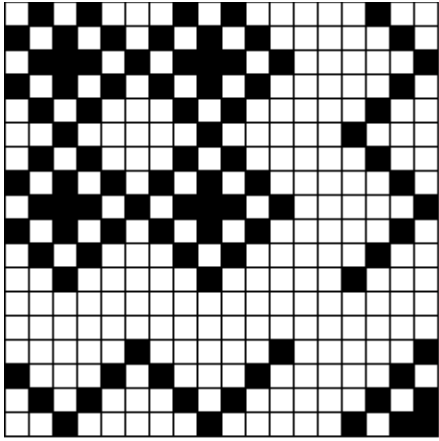
# b. Tuletatud kangad

## Vilturips



## b. Tuletatud kangad Vahvelkangas



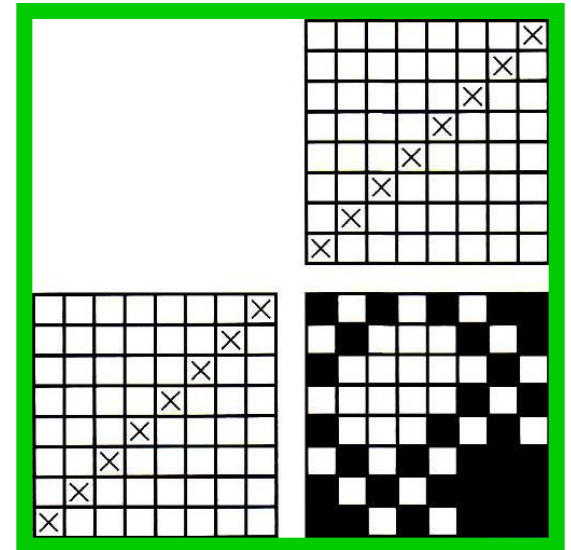




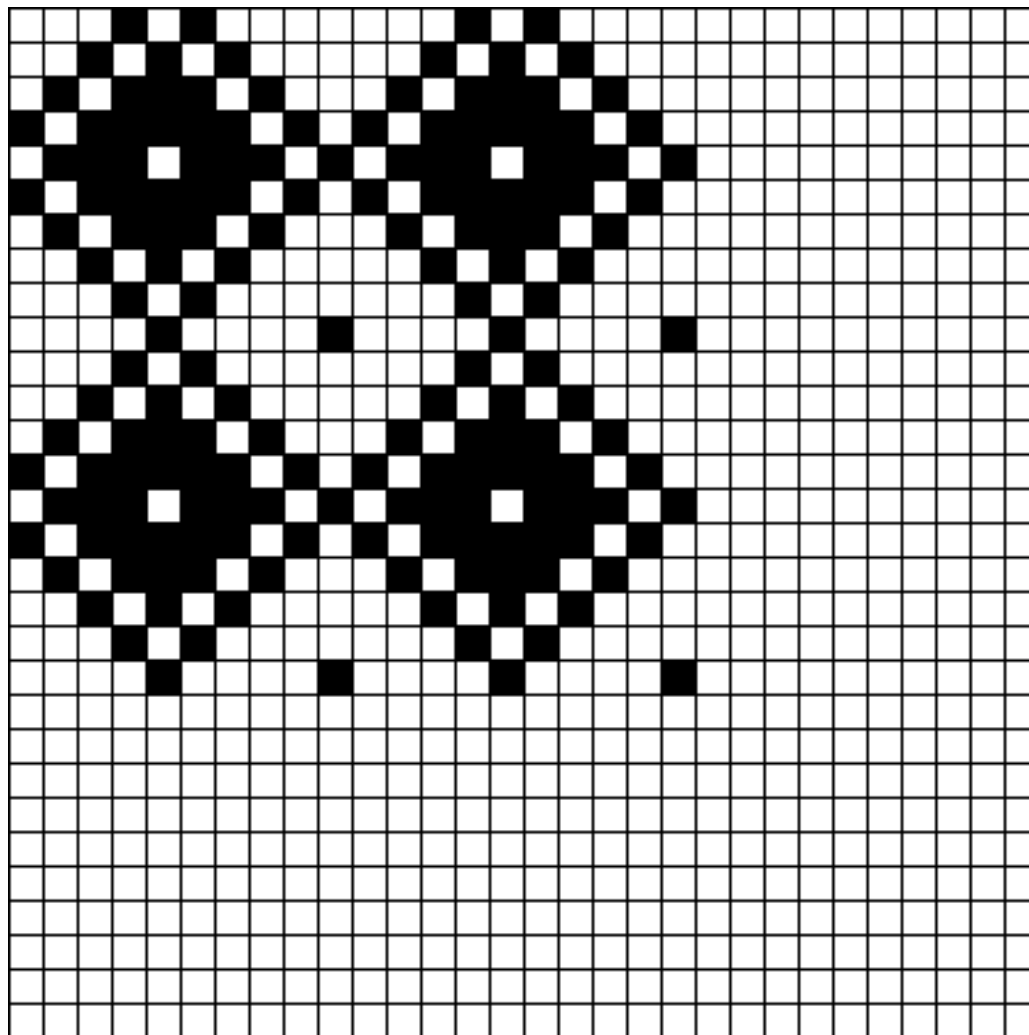
## b. Tuletatud kangad



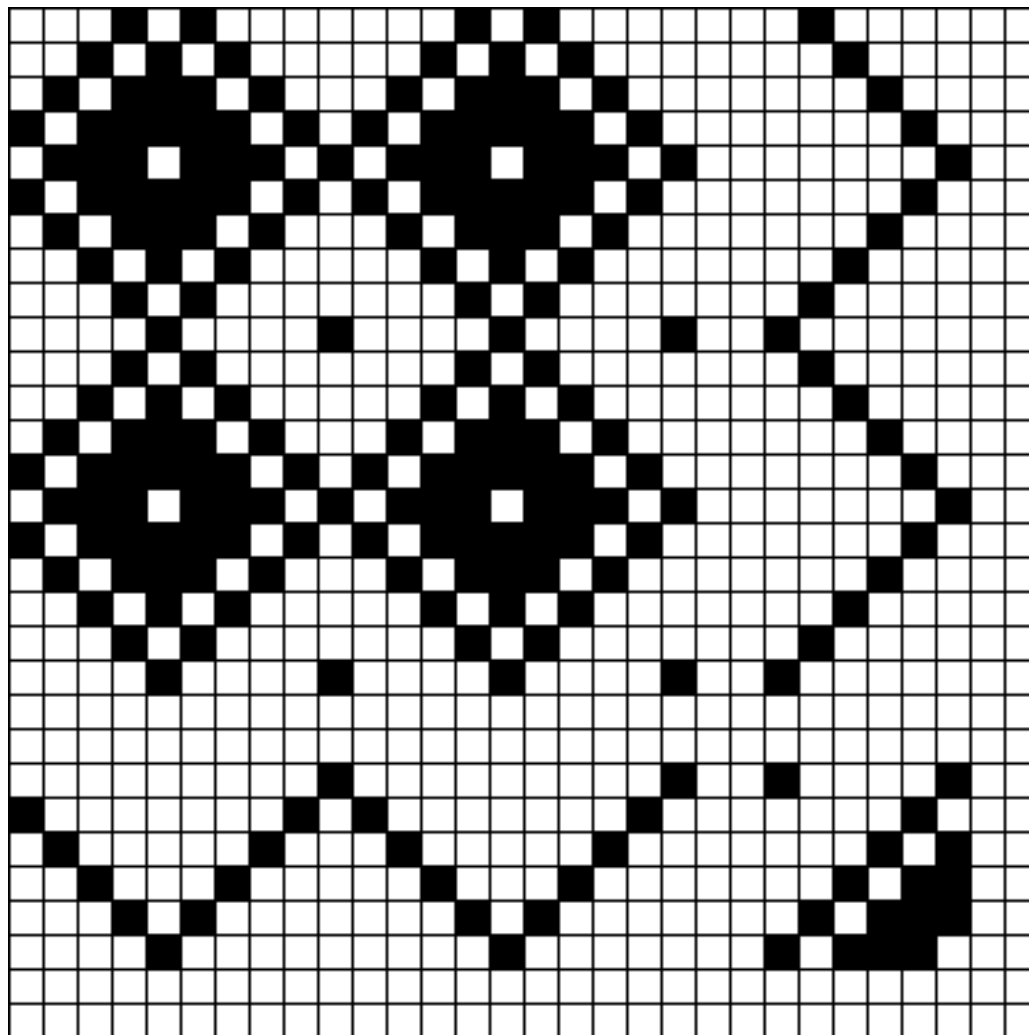
## Vahvelkangas



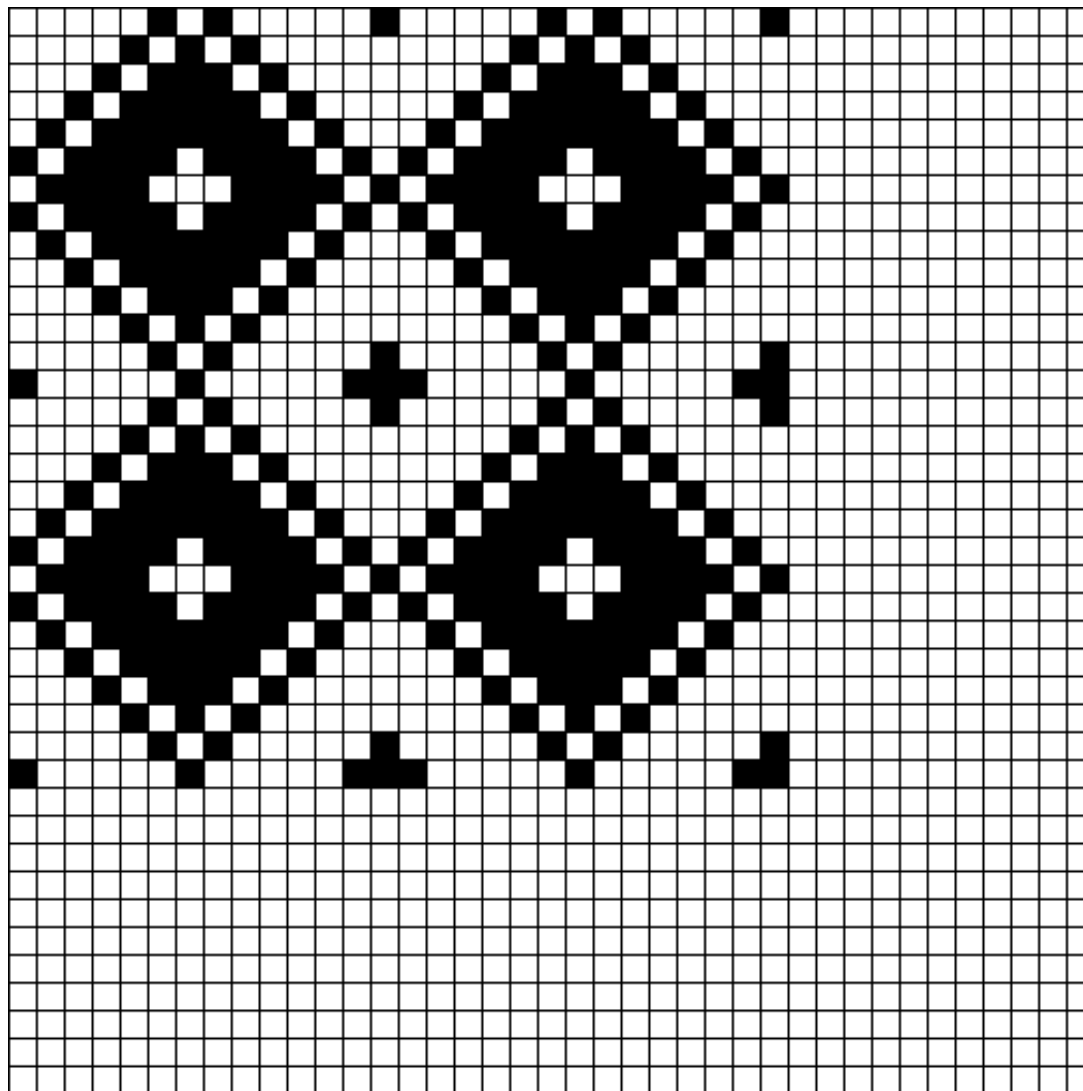
# Märgi vahvelkanga rakendus!



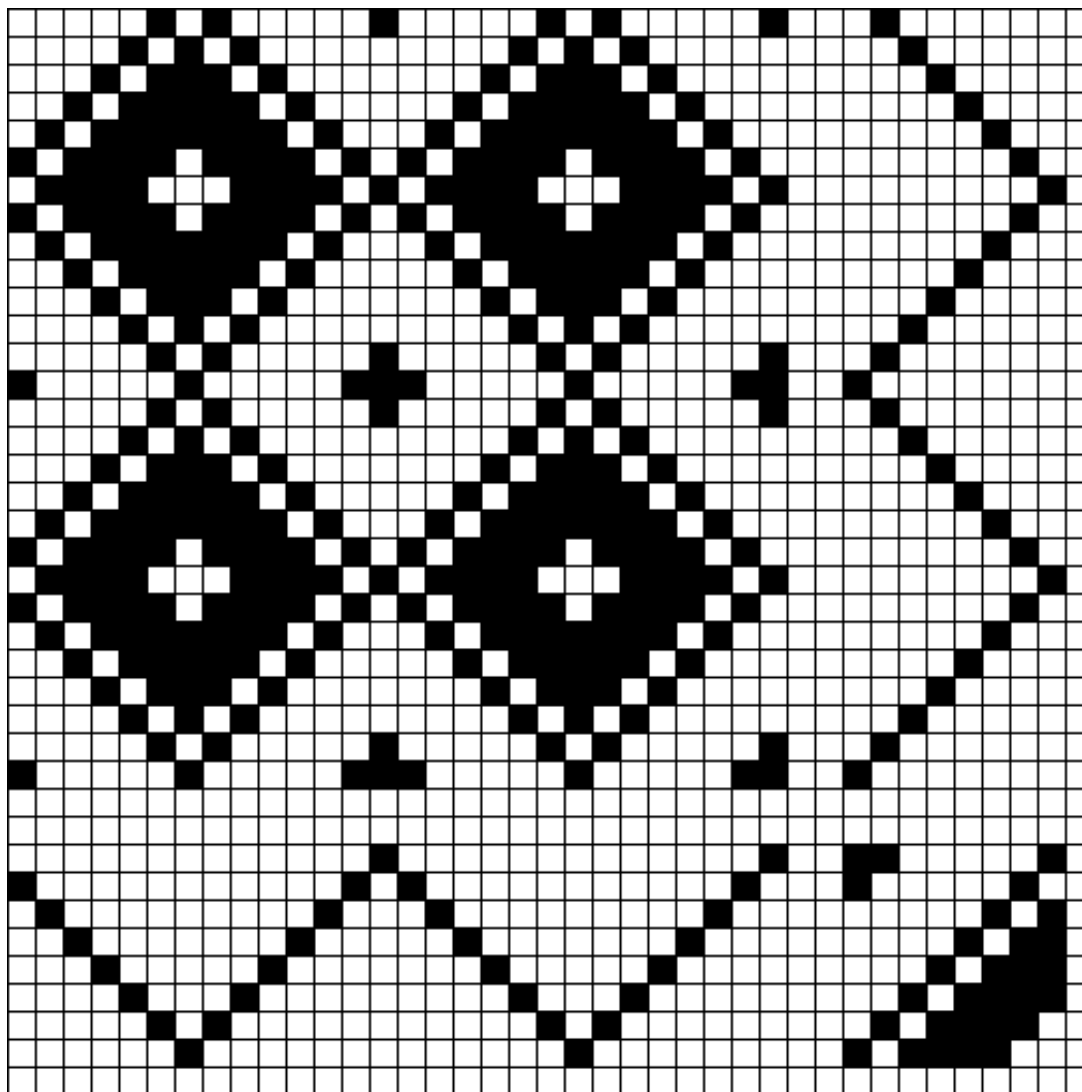
# Märgi vahvelkanga rakendus!



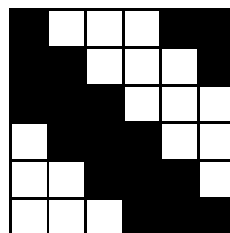
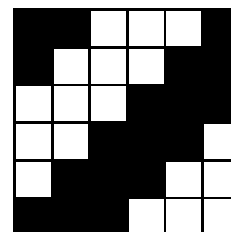
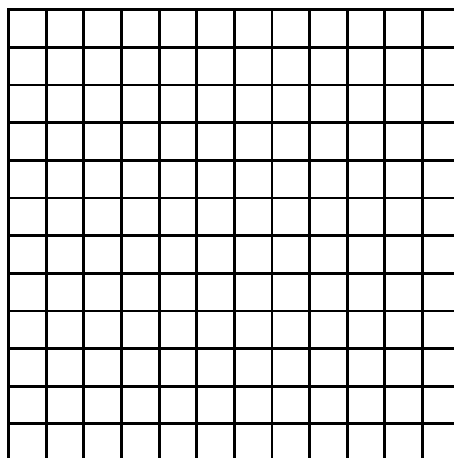
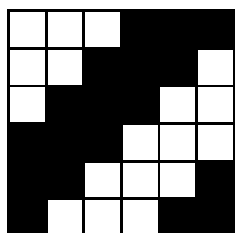
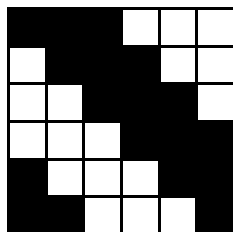
# Märgi vahvelkanga rakendus!



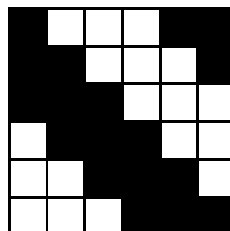
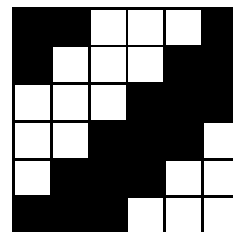
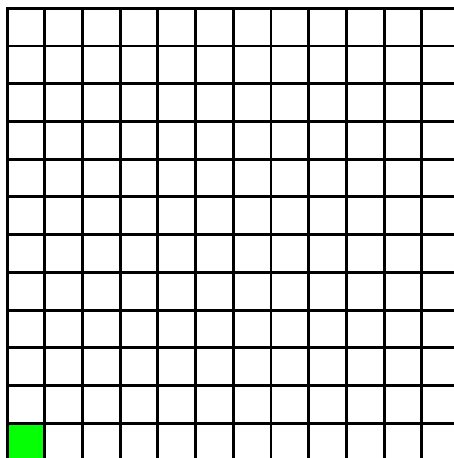
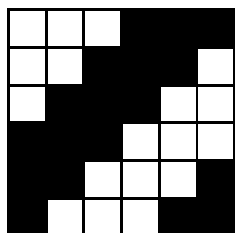
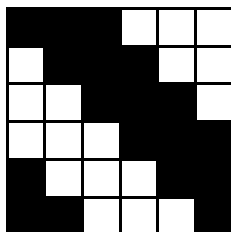
# Märgi vahvelkanga rakendus!



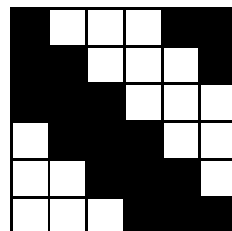
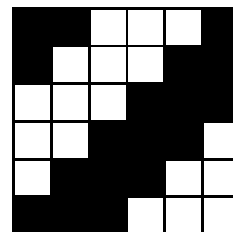
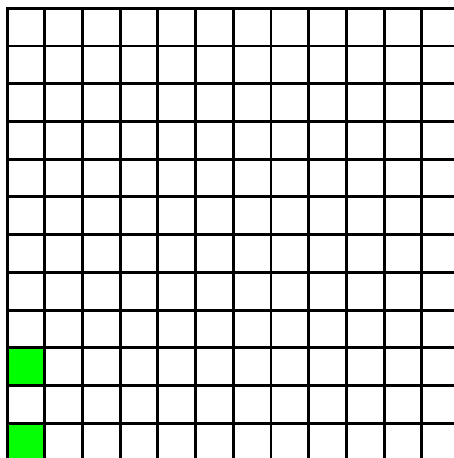
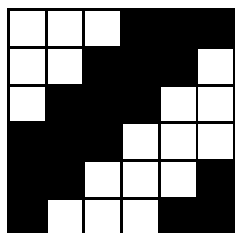
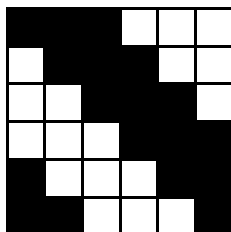
# 4-kordset ümberpööramisel tuletatud krepp



# 4-kordset ümberpööramisel tuletatud krepp

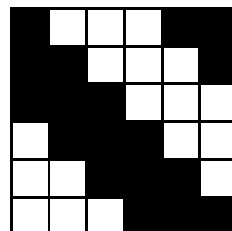
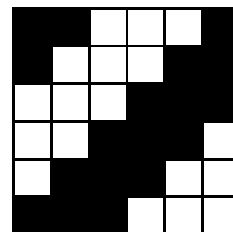
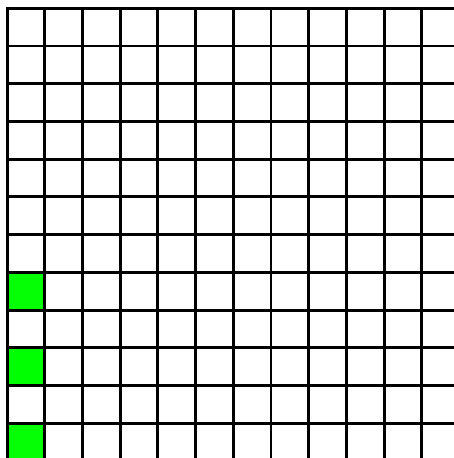
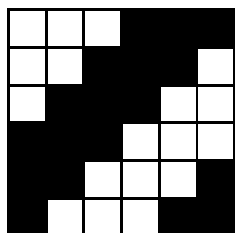
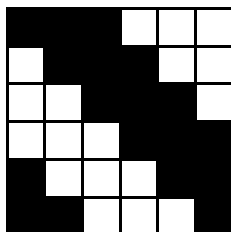


# 4-kordset ümberpööramisel tuletatud krepp

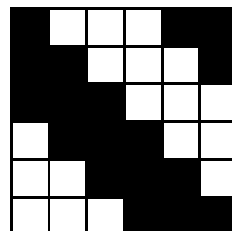
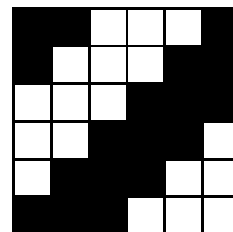
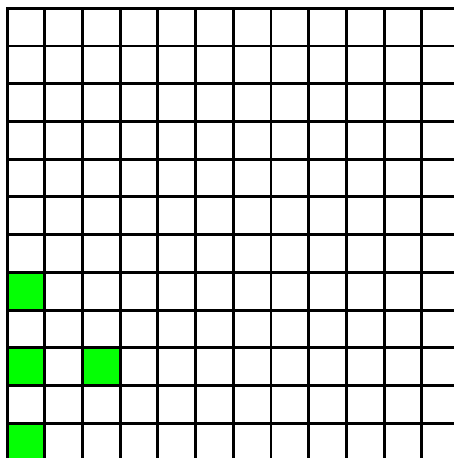
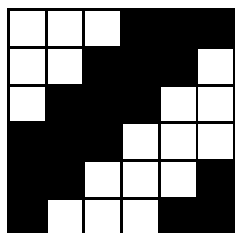
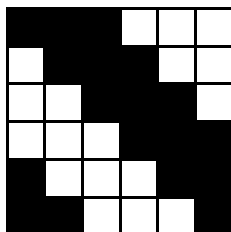




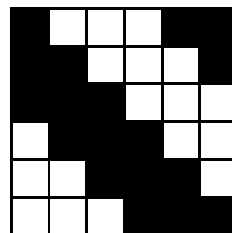
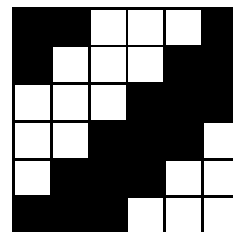
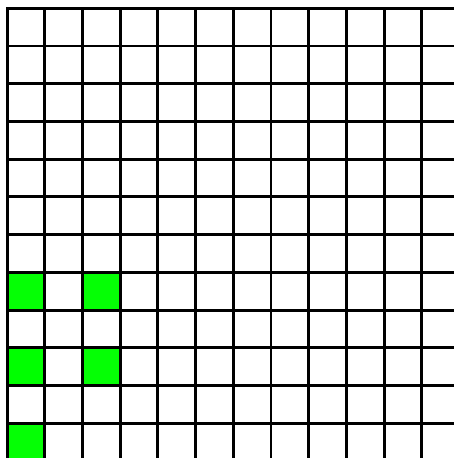
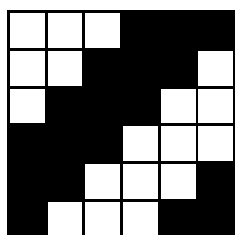
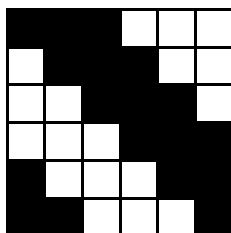
# 4-kordsetel ümberpööramisel tuletatud krepp



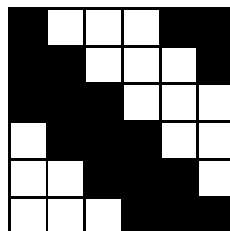
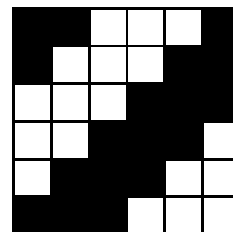
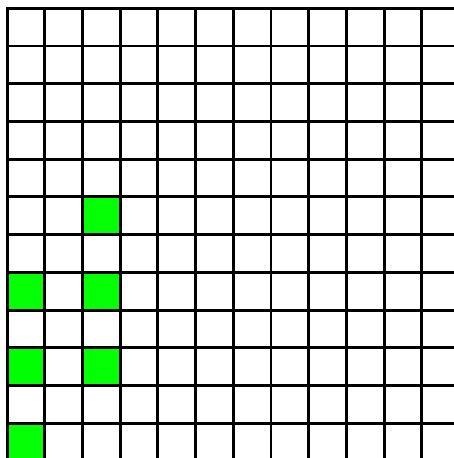
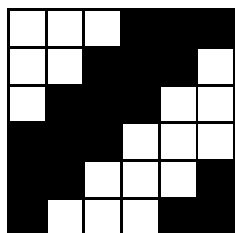
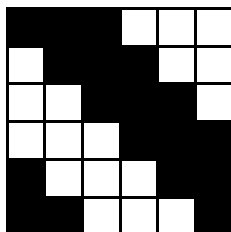
# 4-kordset ümberpööramisel tuletatud krepp



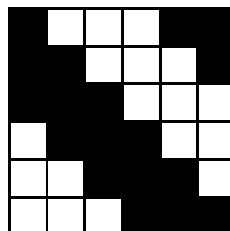
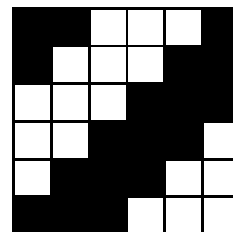
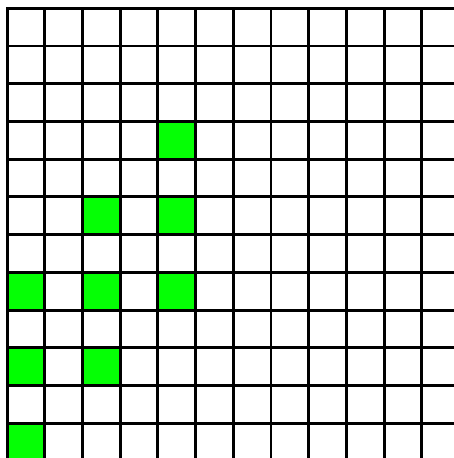
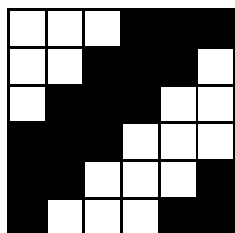
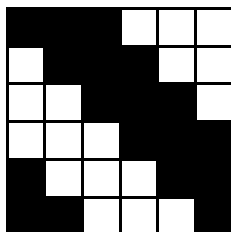
# 4-kordsetel ümberpööramisel tuletatud krepp



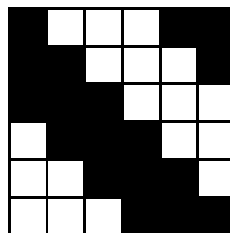
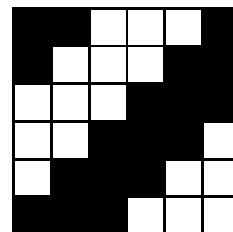
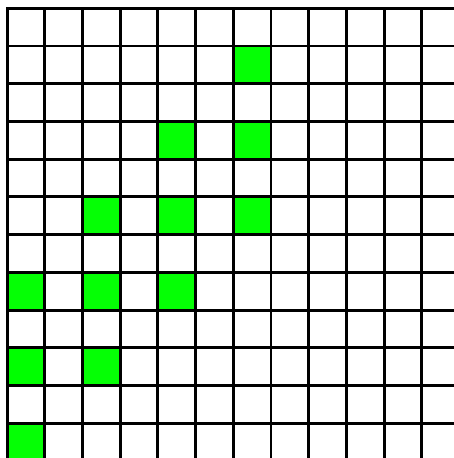
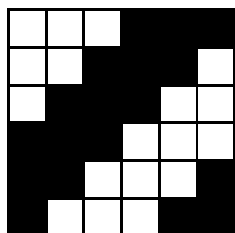
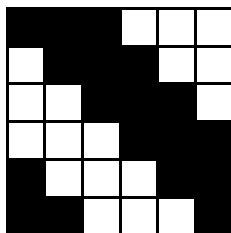
# 4-kordsetel ümberpööramisel tuletatud krepp



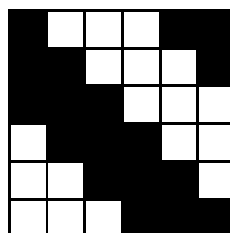
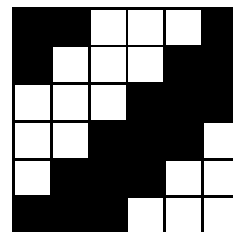
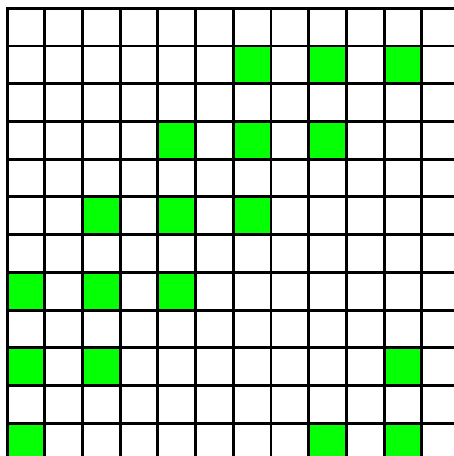
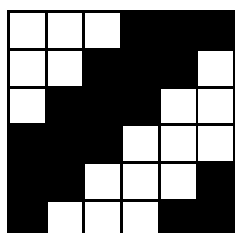
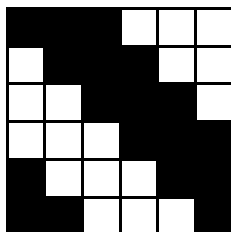
# 4-kordset ümberpööramisel tuletatud krepp



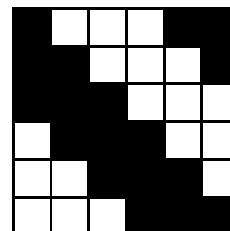
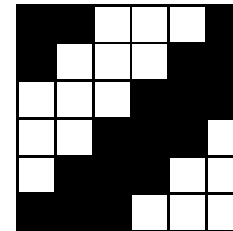
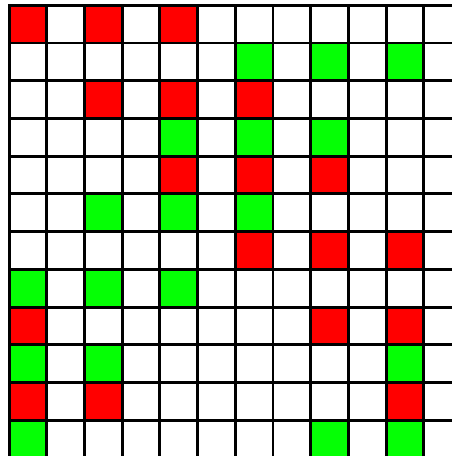
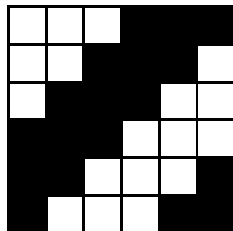
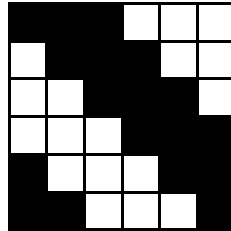
# 4-kordset ümberpööramisel tuletatud krepp



# 4-kordset ümberpööramisel tuletatud krepp

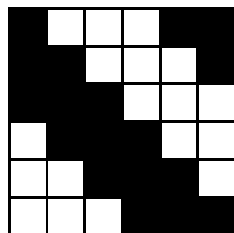
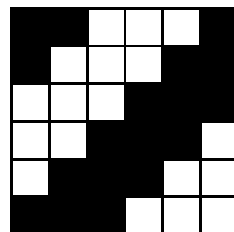
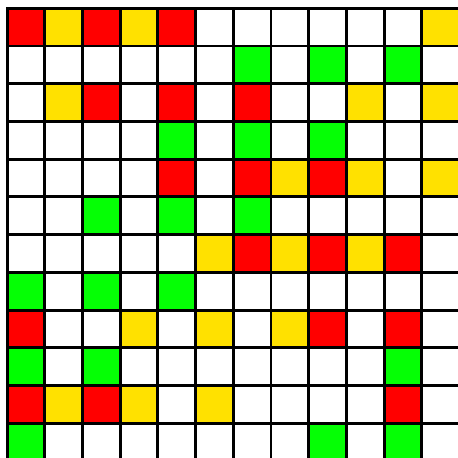
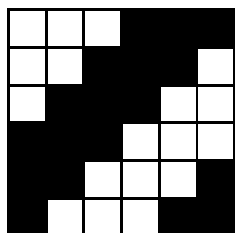
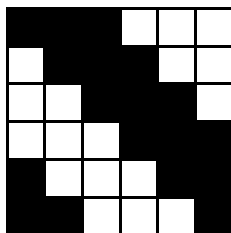


# 4-kordset ümberpööramisel tuletatud krepp

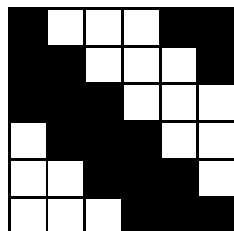
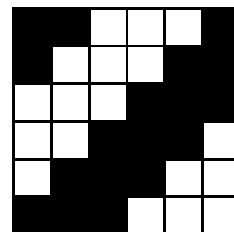
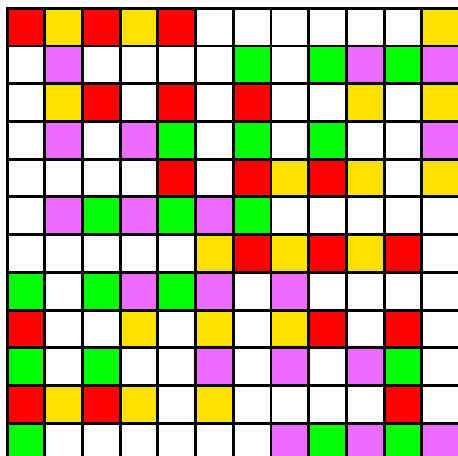
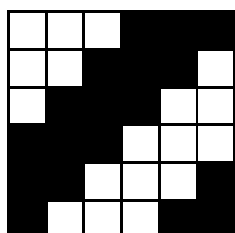
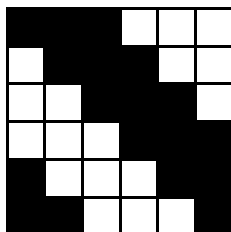




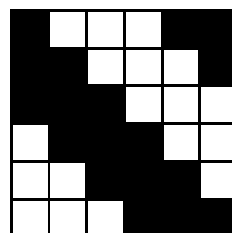
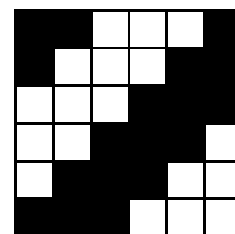
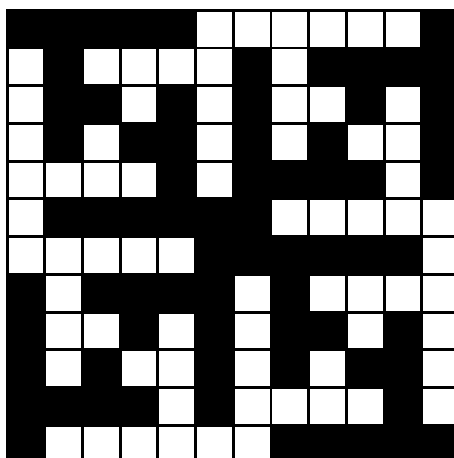
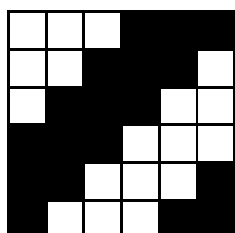
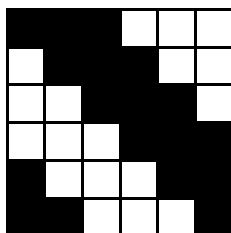
# 4-kordsel ümberpööramisel tuletatud krepp



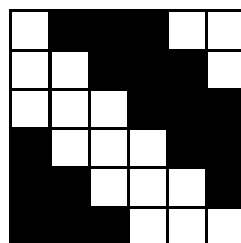
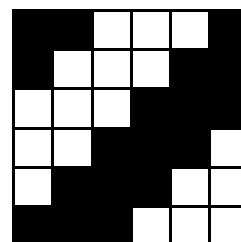
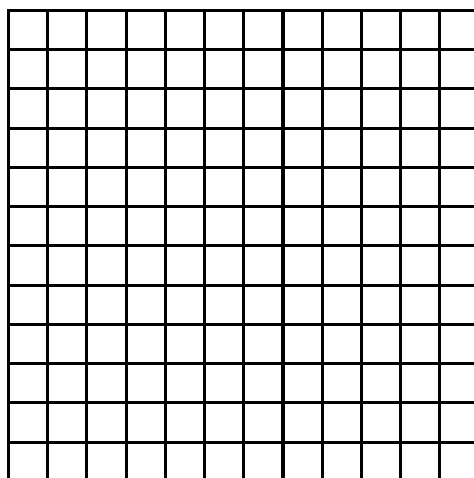
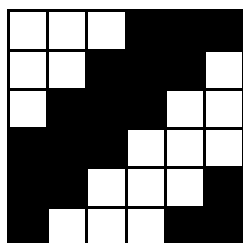
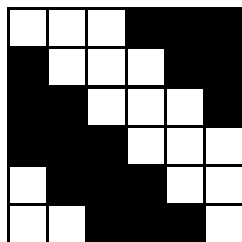
# 4-kordsetel ümberpööramisel tuletatud krepp



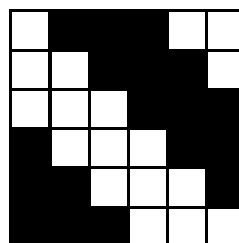
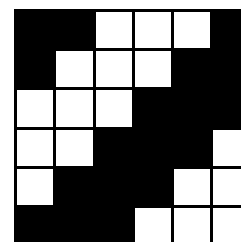
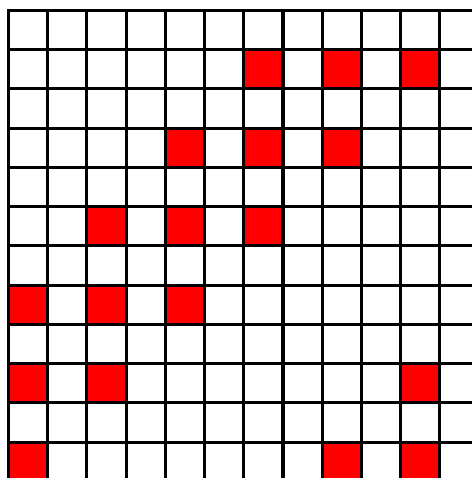
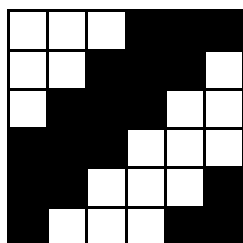
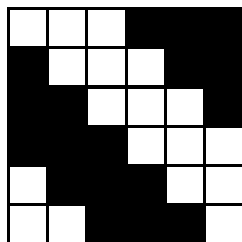
# 4-kordset ümberpööramisel tuletatud krepp



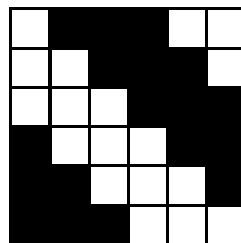
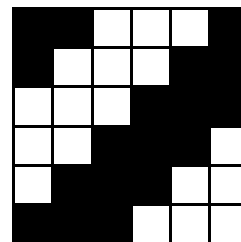
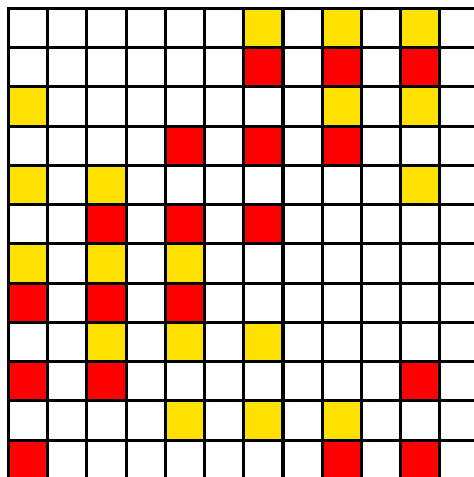
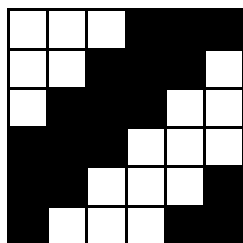
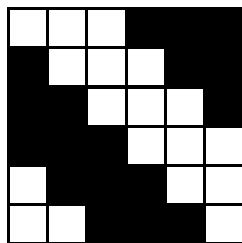
# 4-kordset ümberpööramisel tuletatud krepp



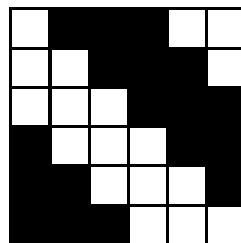
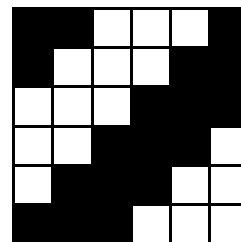
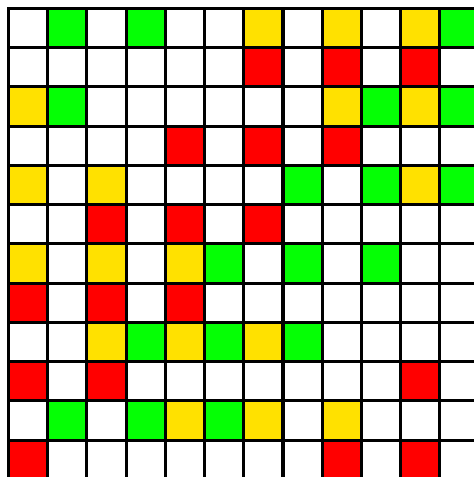
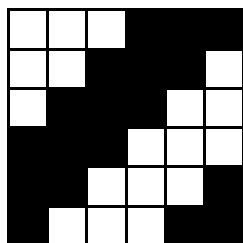
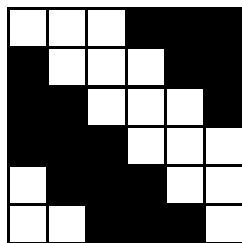
# 4-kordsel ümberpööramisel tuletatud krepp



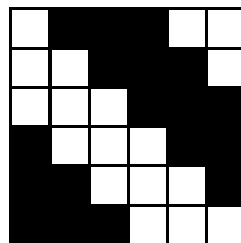
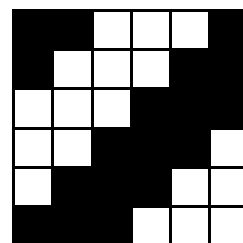
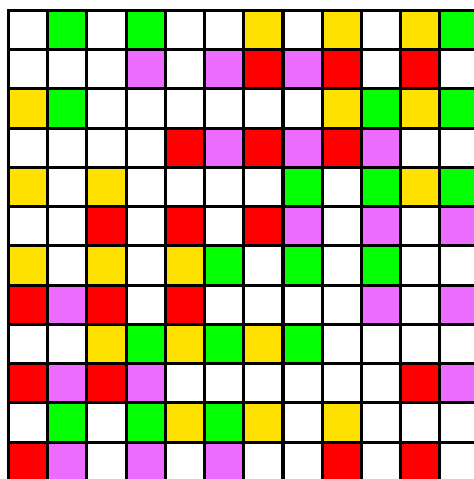
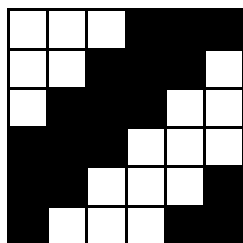
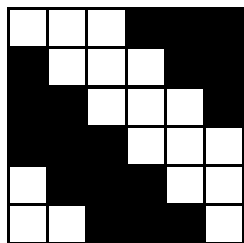
# 4-kordsel ümberpööramisel tuletatud krepp



# 4-kordsel ümberpööramisel tuletatud krepp

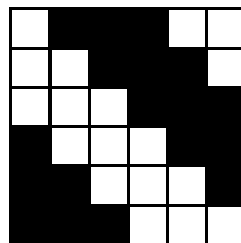
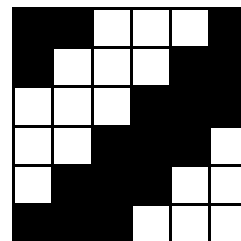
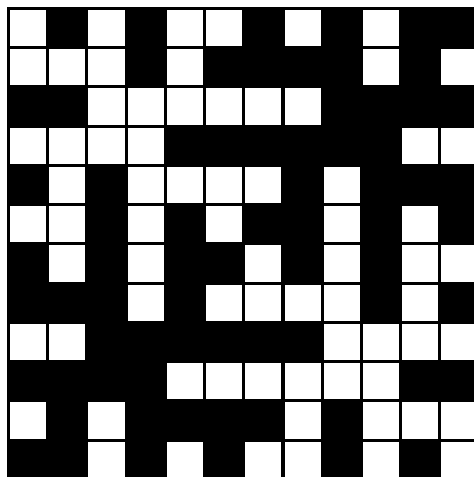
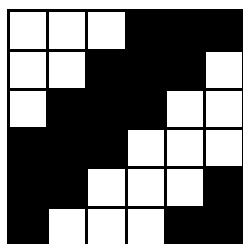
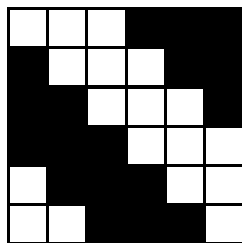


# 4-kordsel ümberpööramisel tuletatud krepp

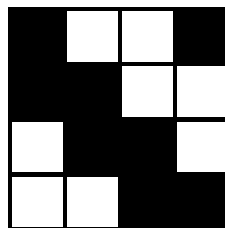
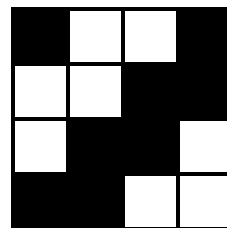
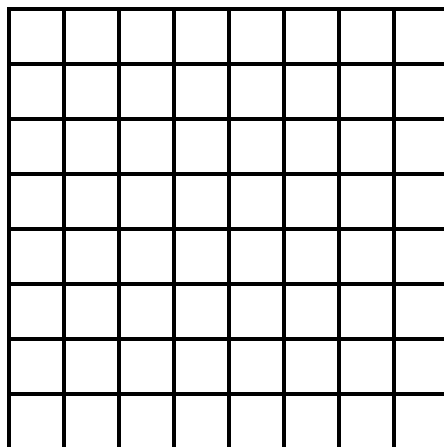
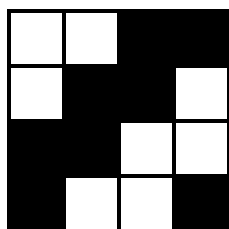
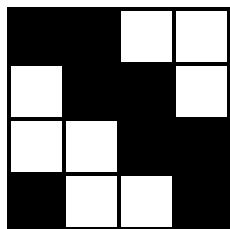




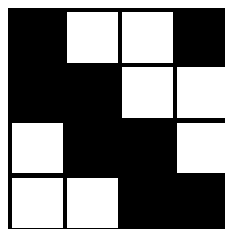
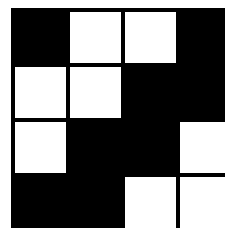
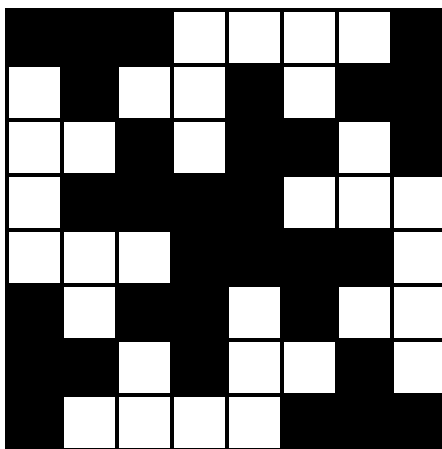
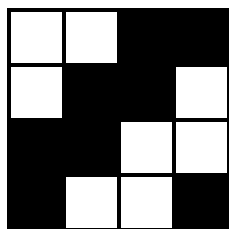
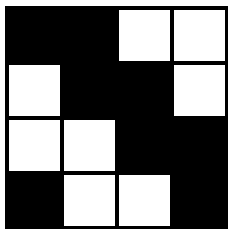
# 4-kordsel ümberpööramisel tuletatud krepp



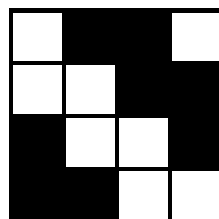
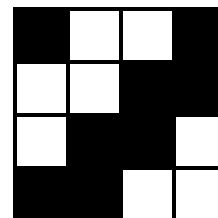
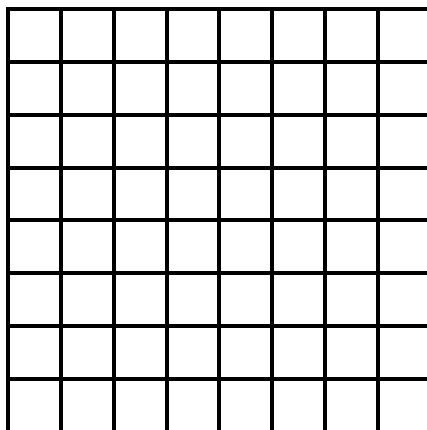
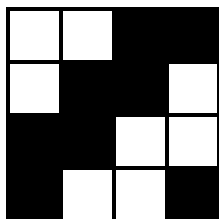
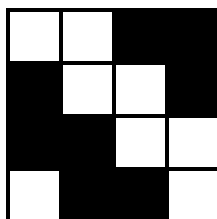
# 4-kordsel ümberpööramisel tuletatud krepp



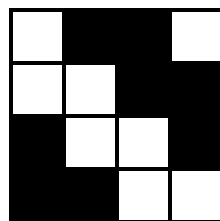
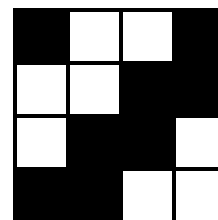
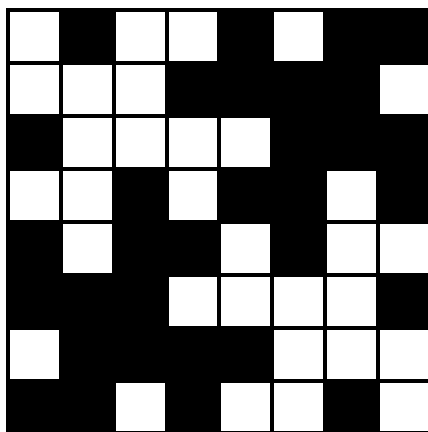
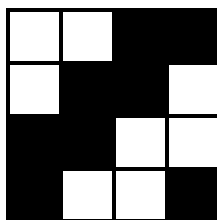
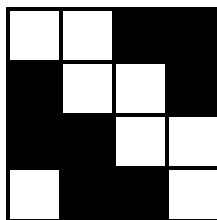
# 4-kordsetel ümberpööramisel tuletatud krepp



# 4-kordsel ümberpööramisel tuletatud krepp



# 4-kordsel ümberpööramisel tuletatud krepp

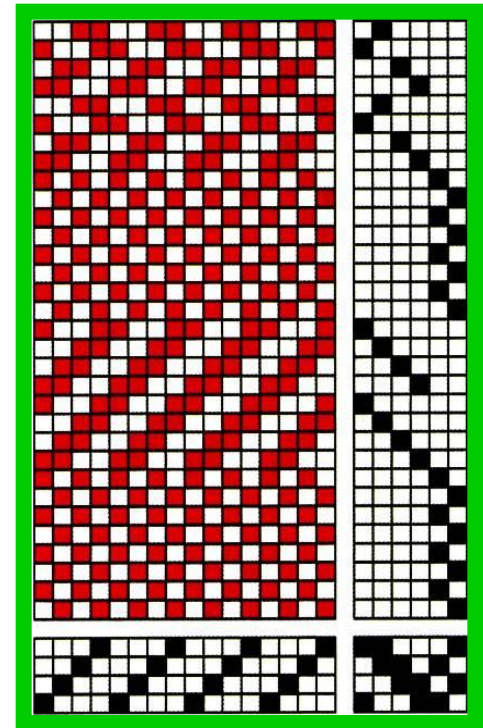




**KANGATEHNIKAD**  
**I Ühekordsed kangad**  
**LIITKANGAD**  
**c. Liitkangad**

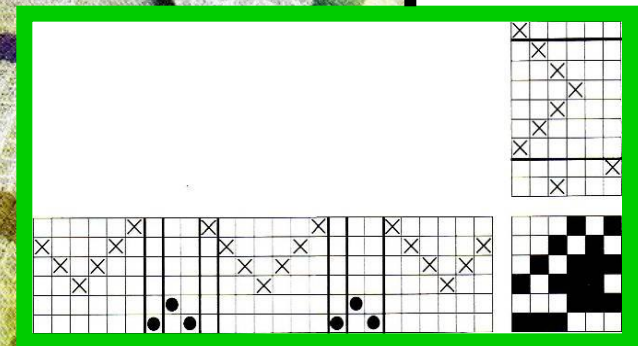
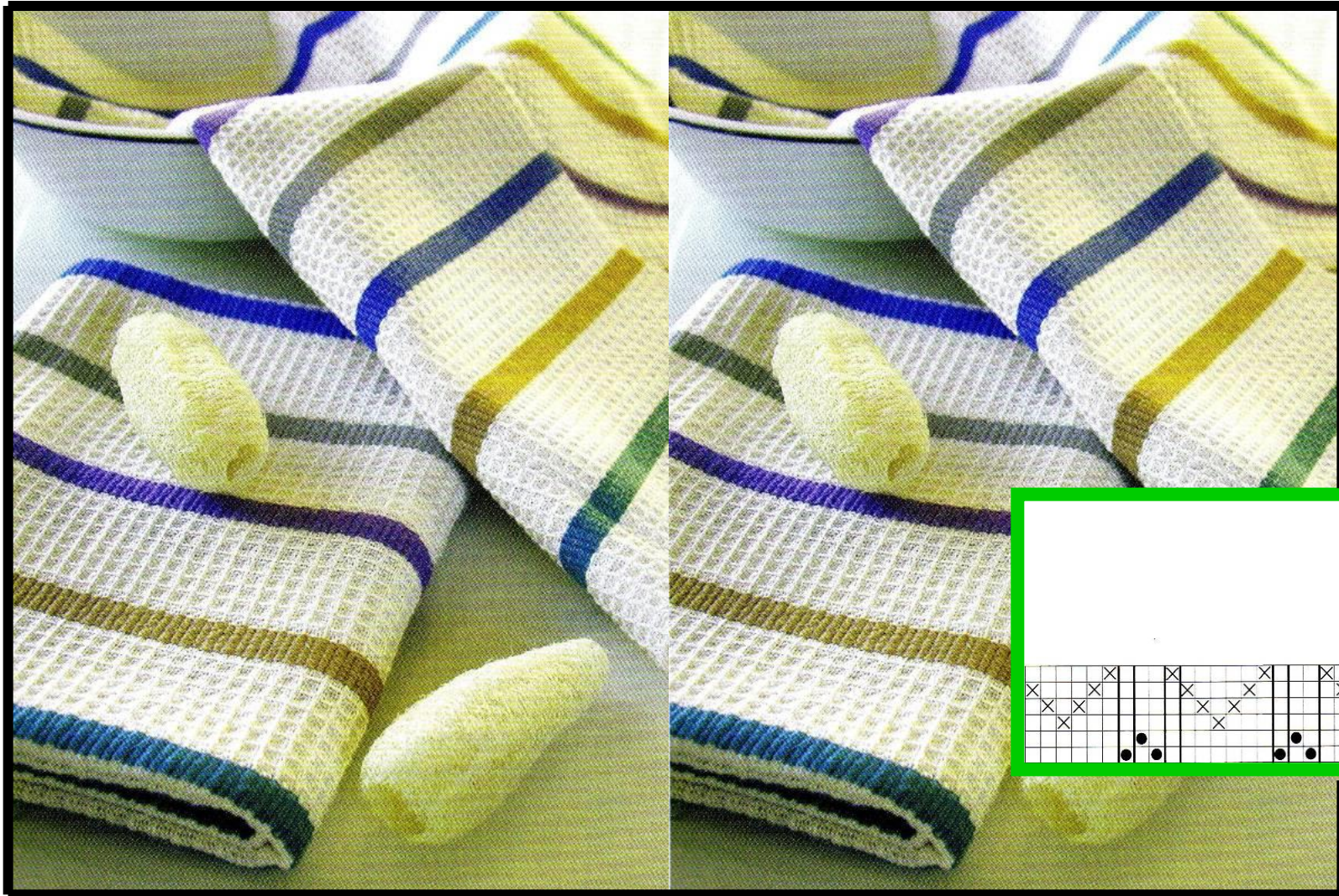
# c. Liitkangad

## Labane toimsega



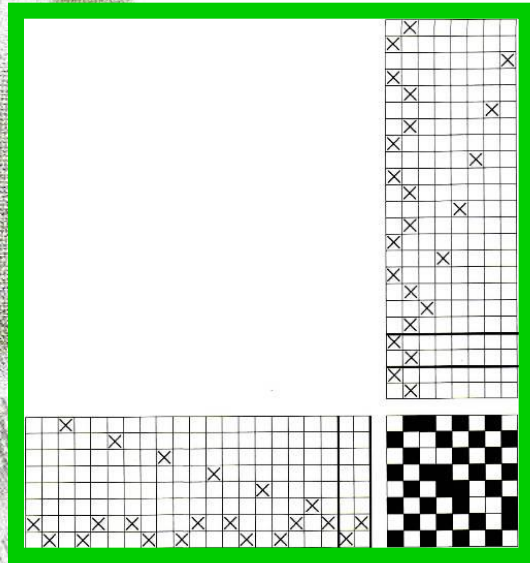
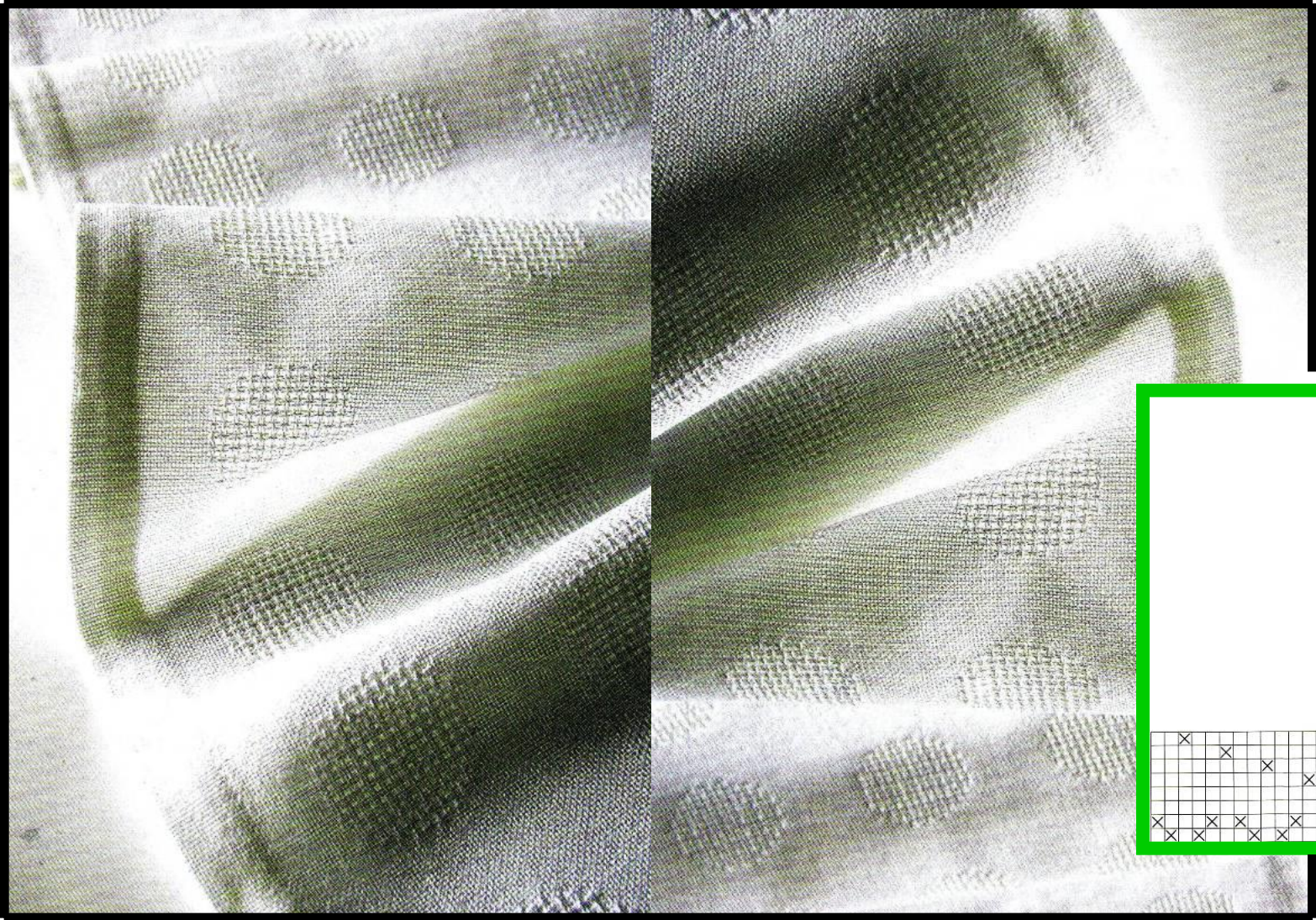
# c. Liitkangad

## Lõimerips vahvliga





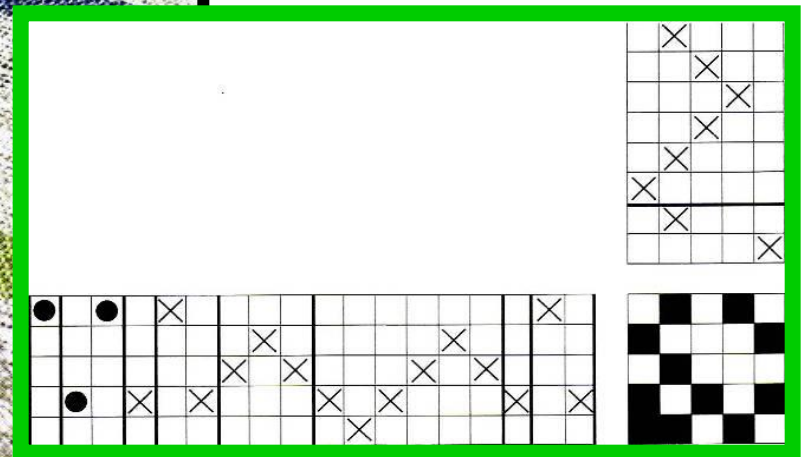
# c. Liitkangad Labane kanvaaga



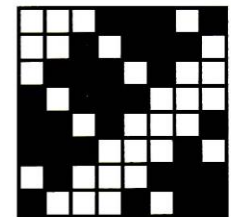
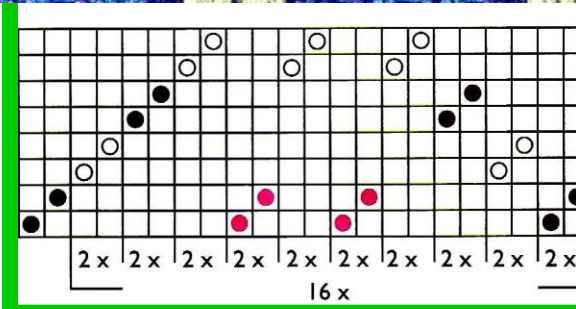
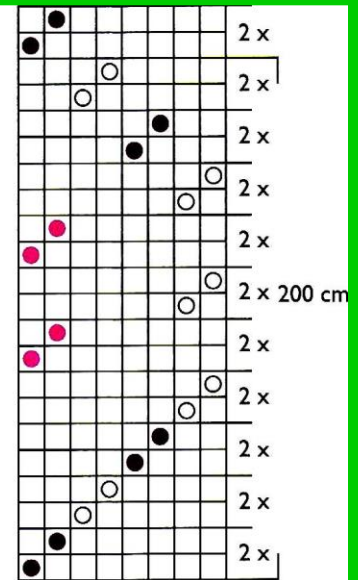
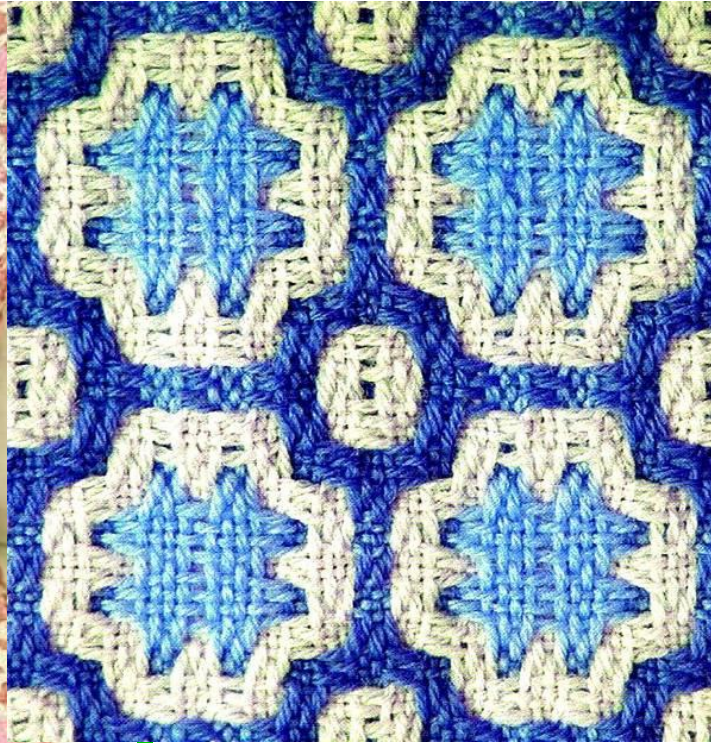
# c. Liitkangad



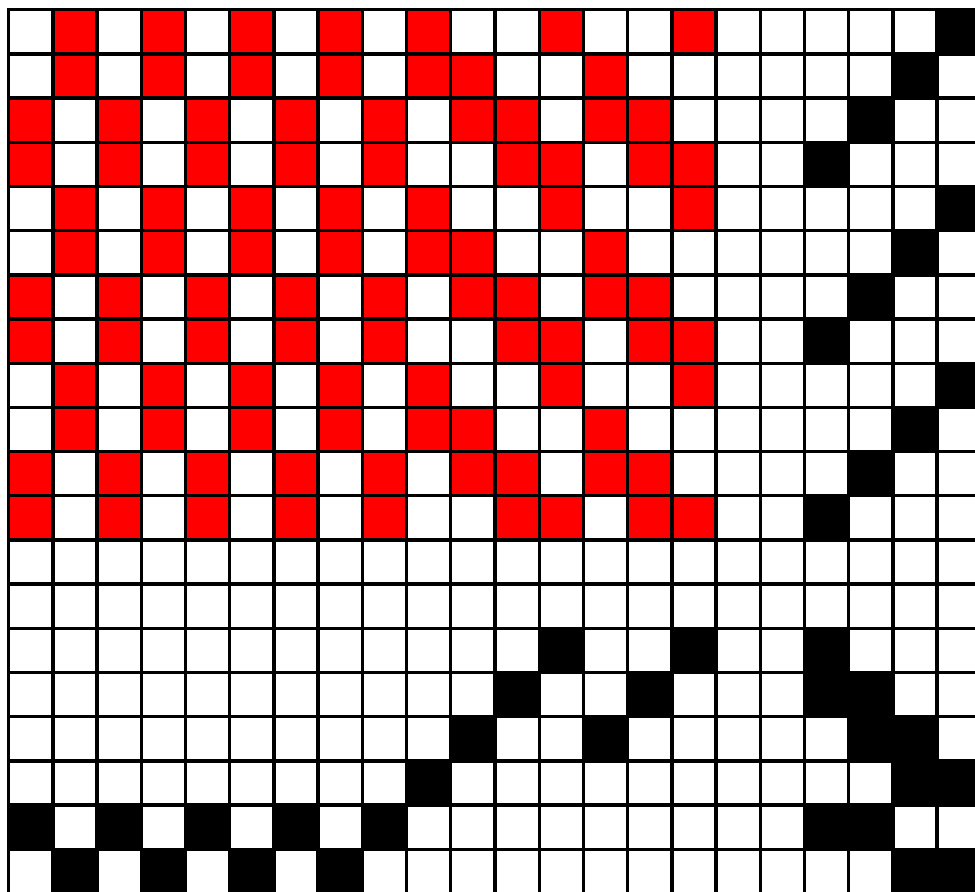
**Labane vahvliga**



# c. Liitkangad Labane panamaga



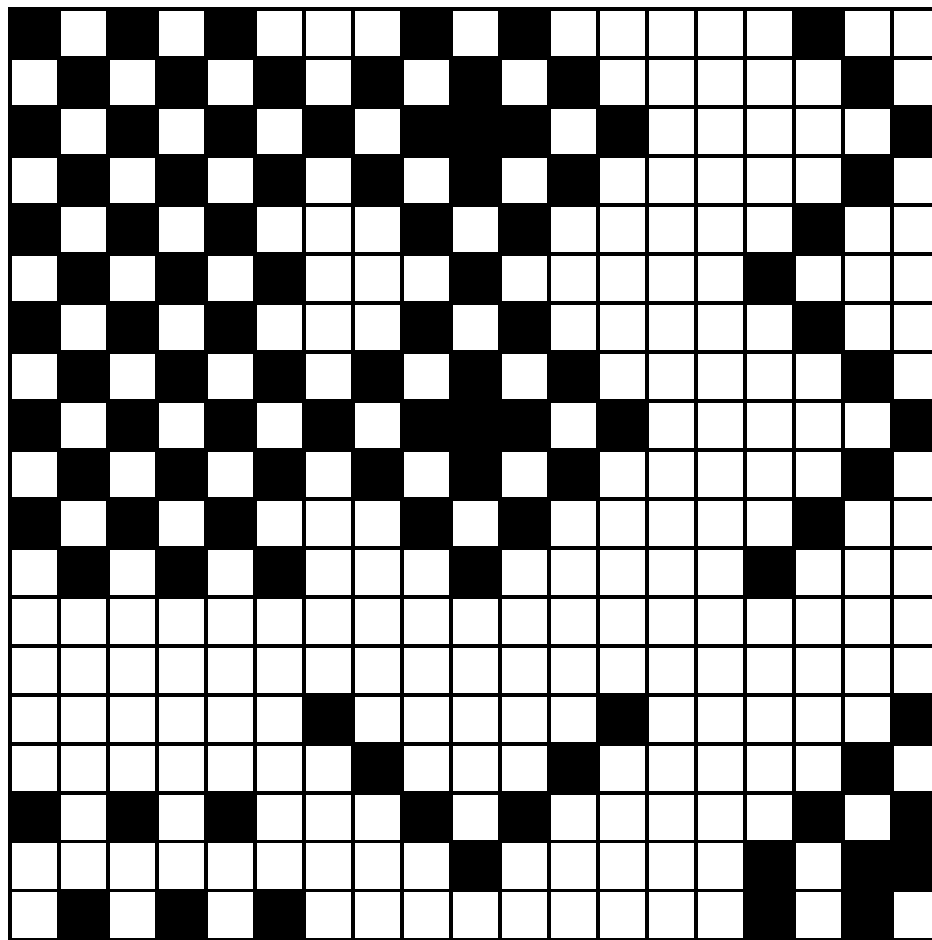
# Lõimerips murdtoimsega



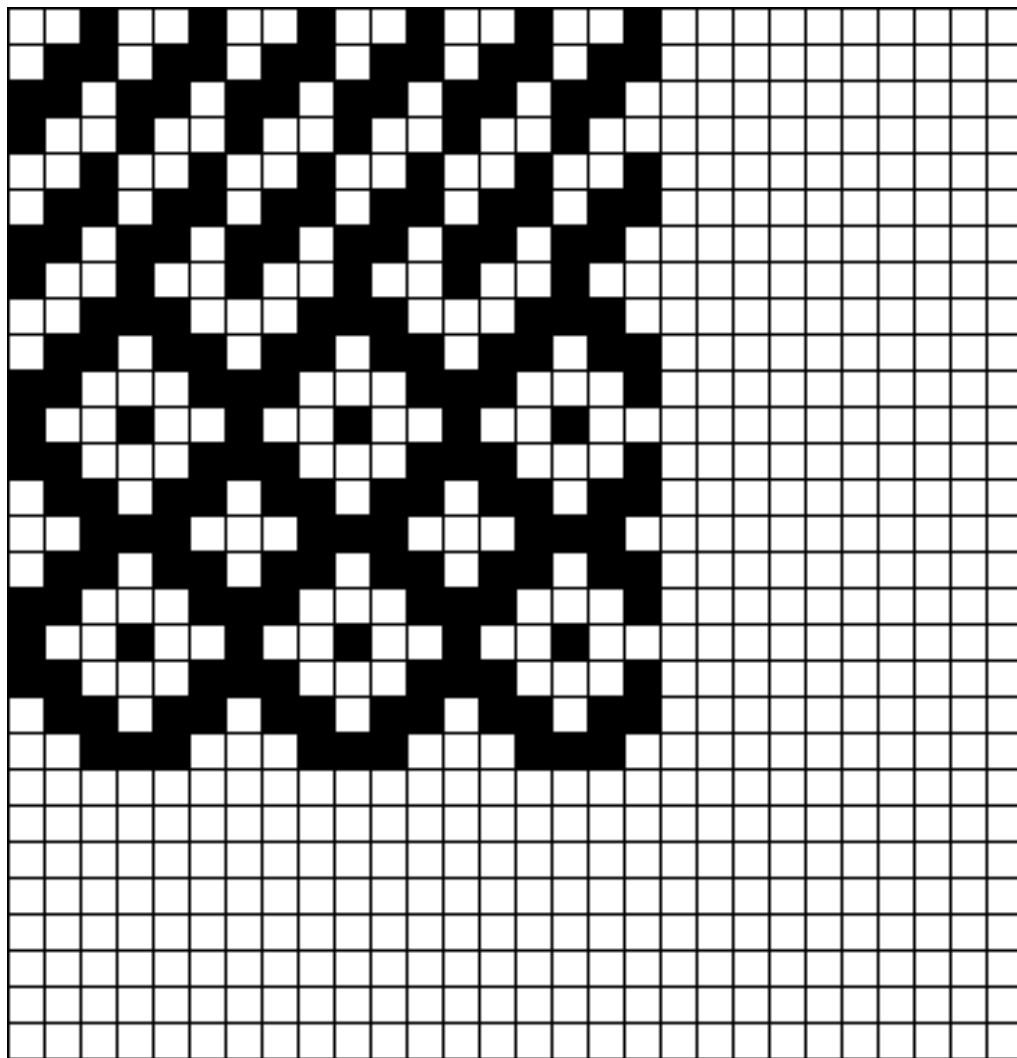




# Märgi rakendus!

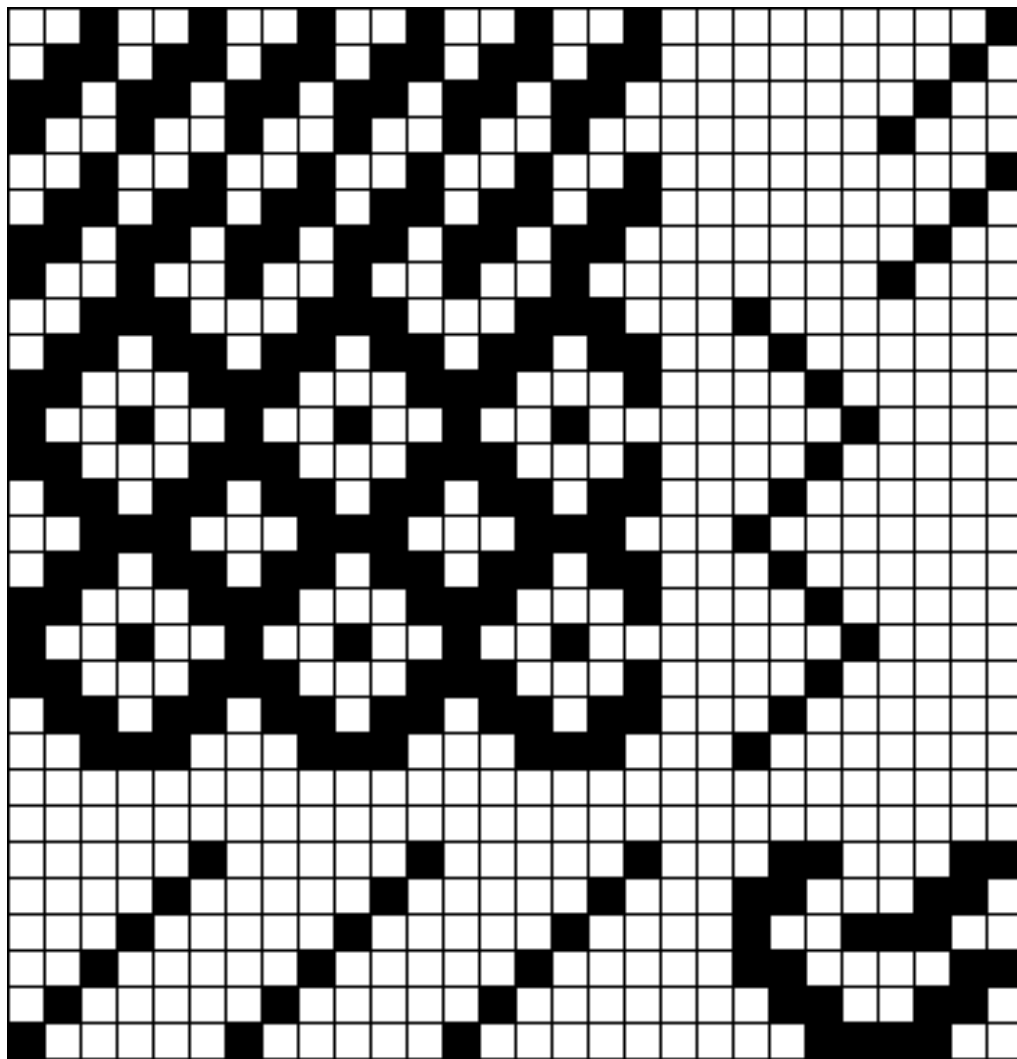


# Märgi rakendus!

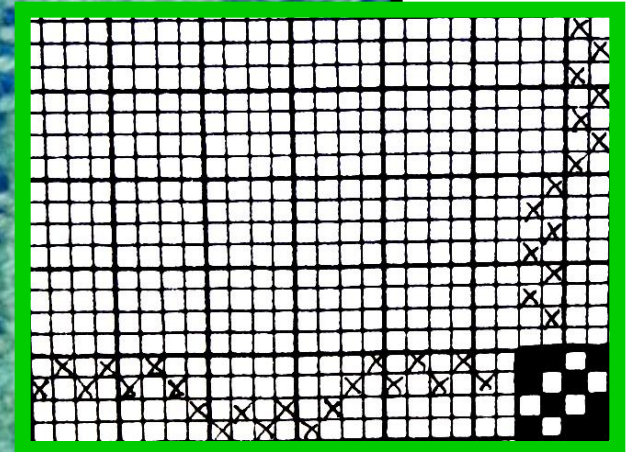
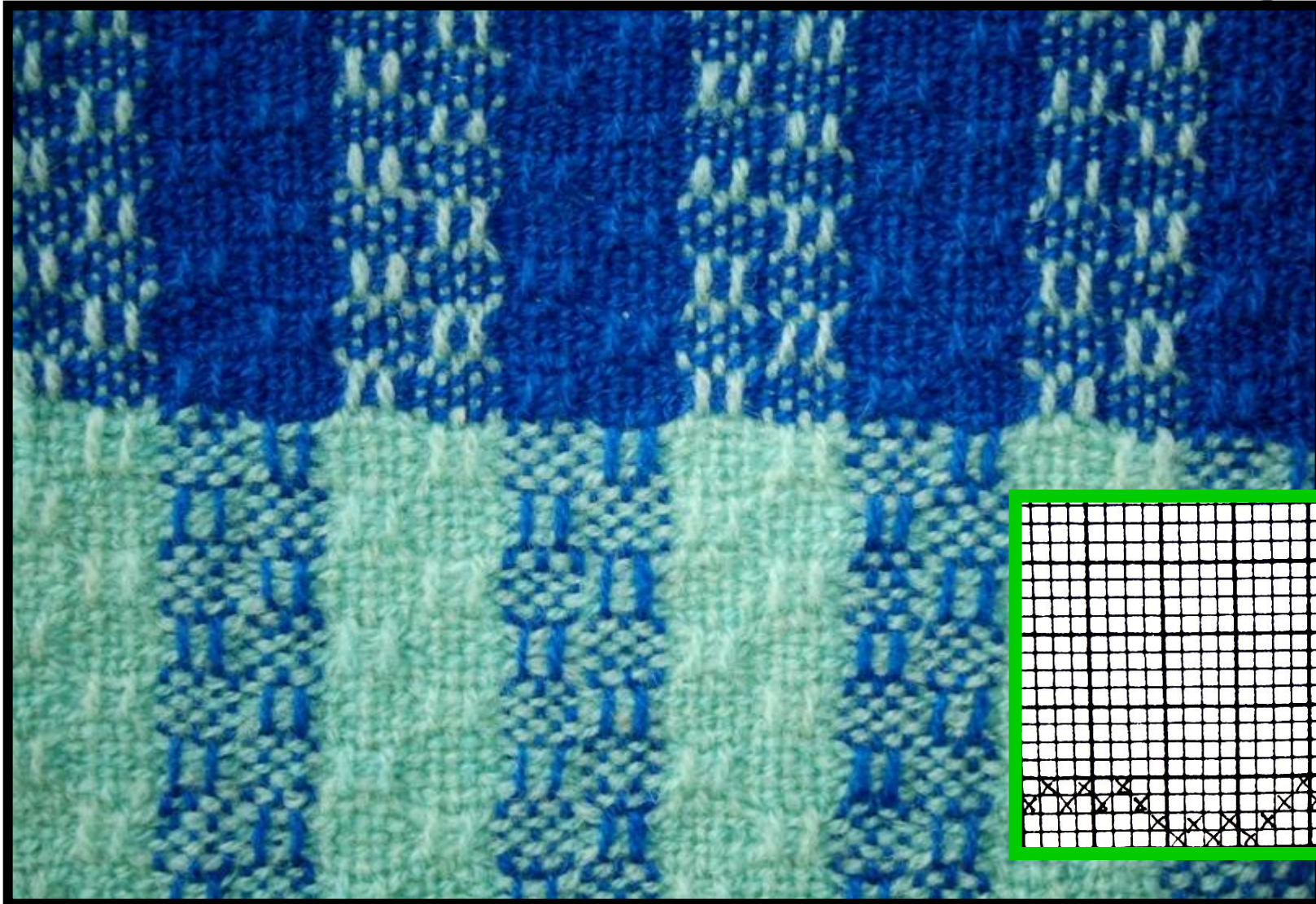




# Märgi rakendus!



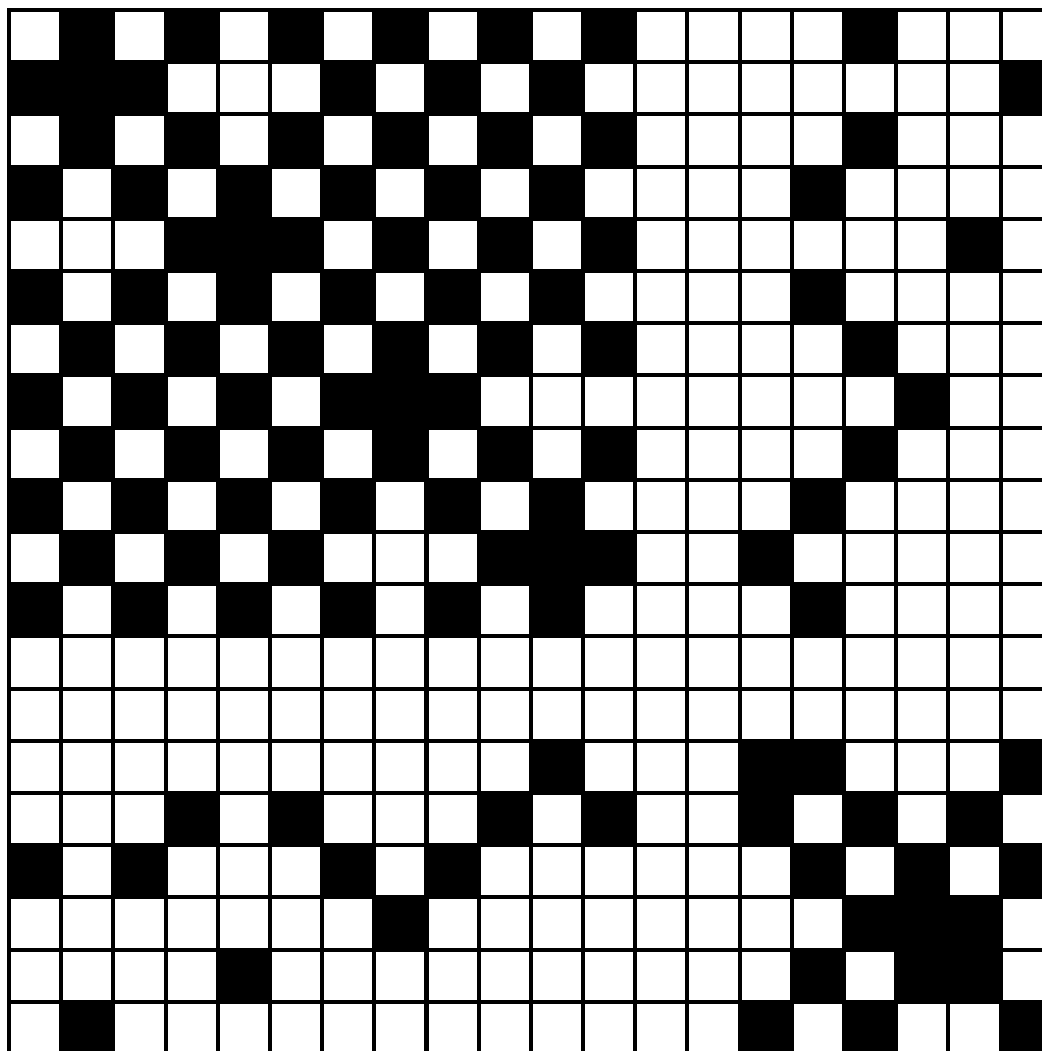
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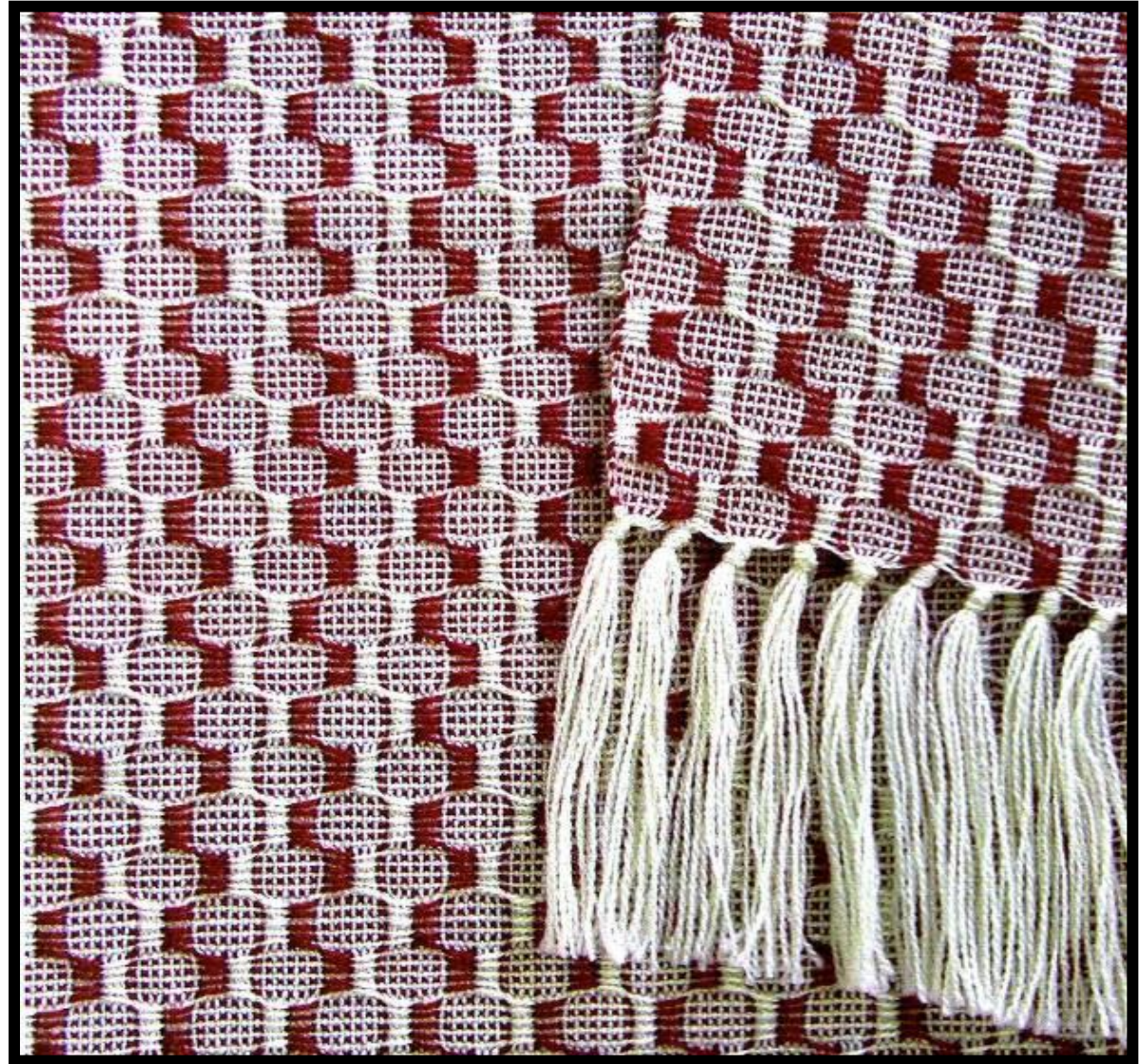




# Märgi rakendus!

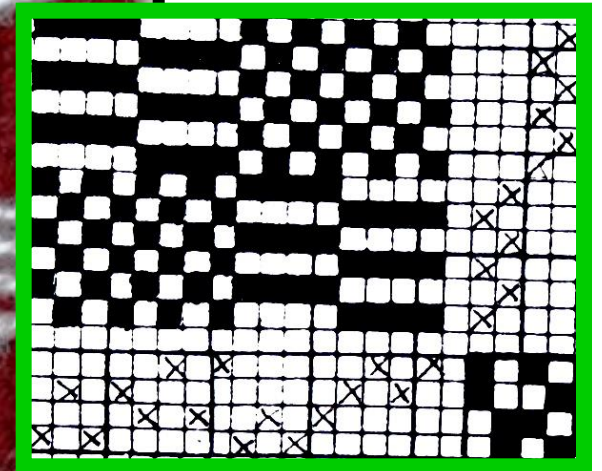


# c. Liitkangad Lepalina

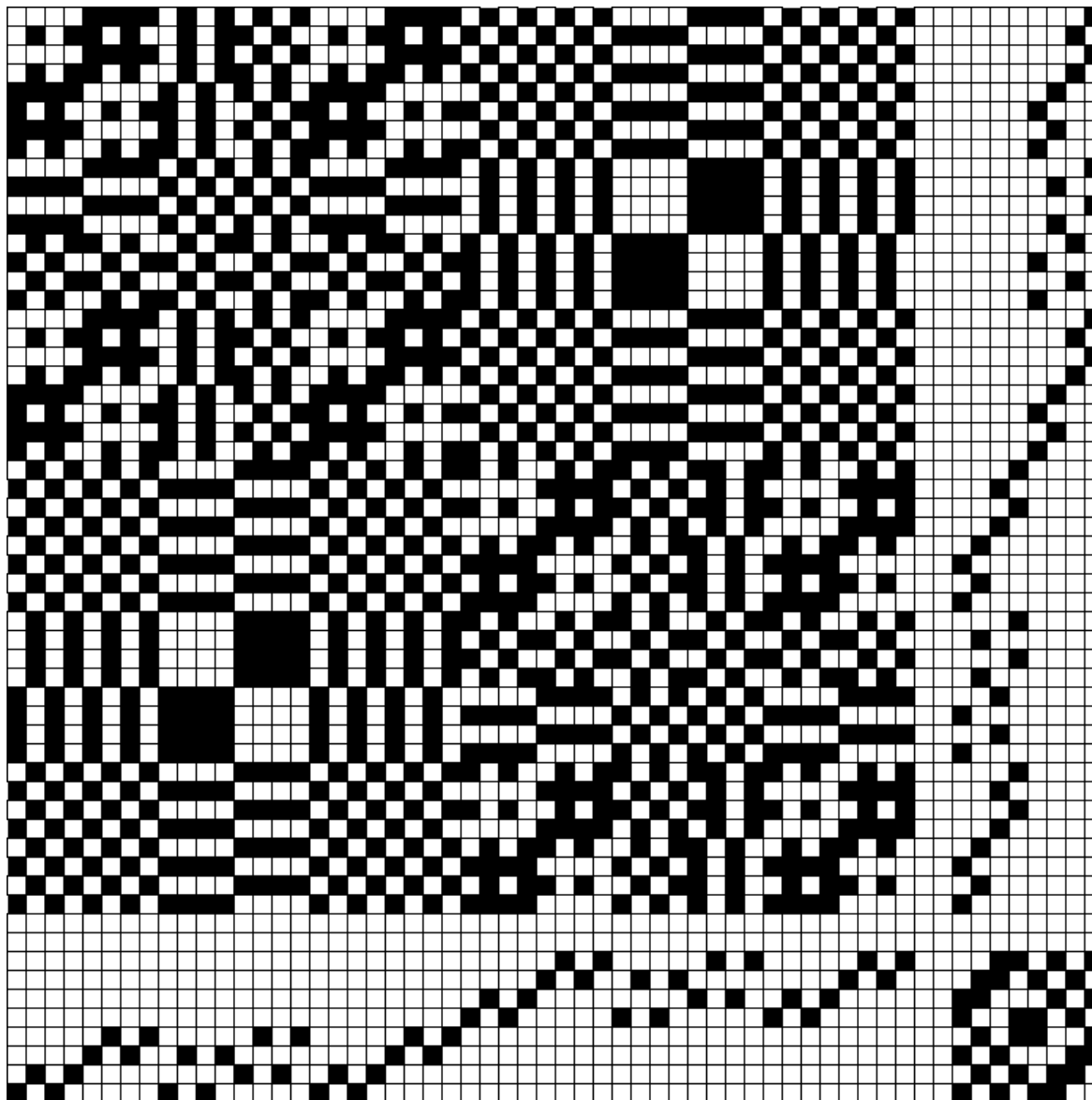


c. Liitkangad

**Lepalina**

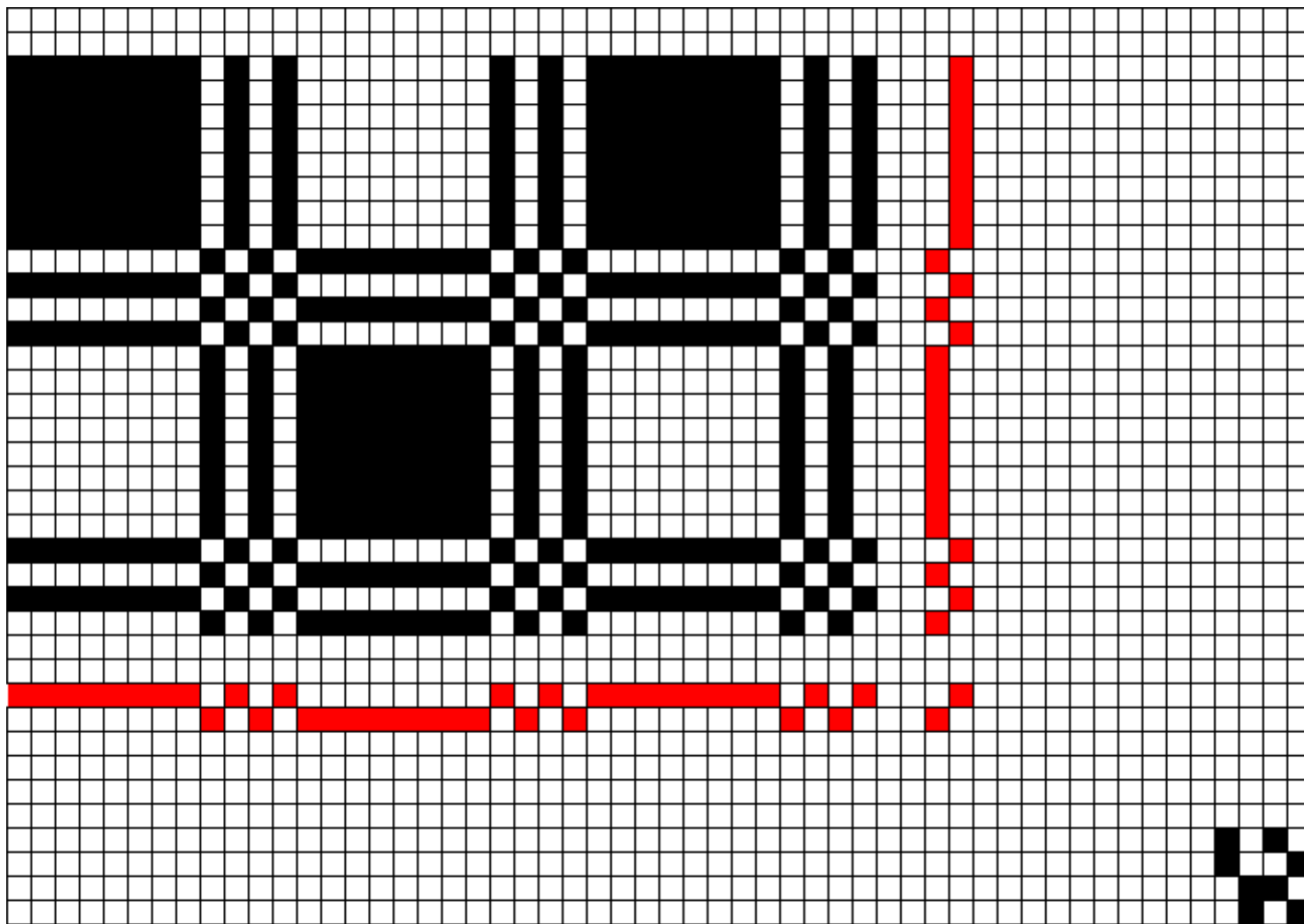


# Kaheksanieline lepalina

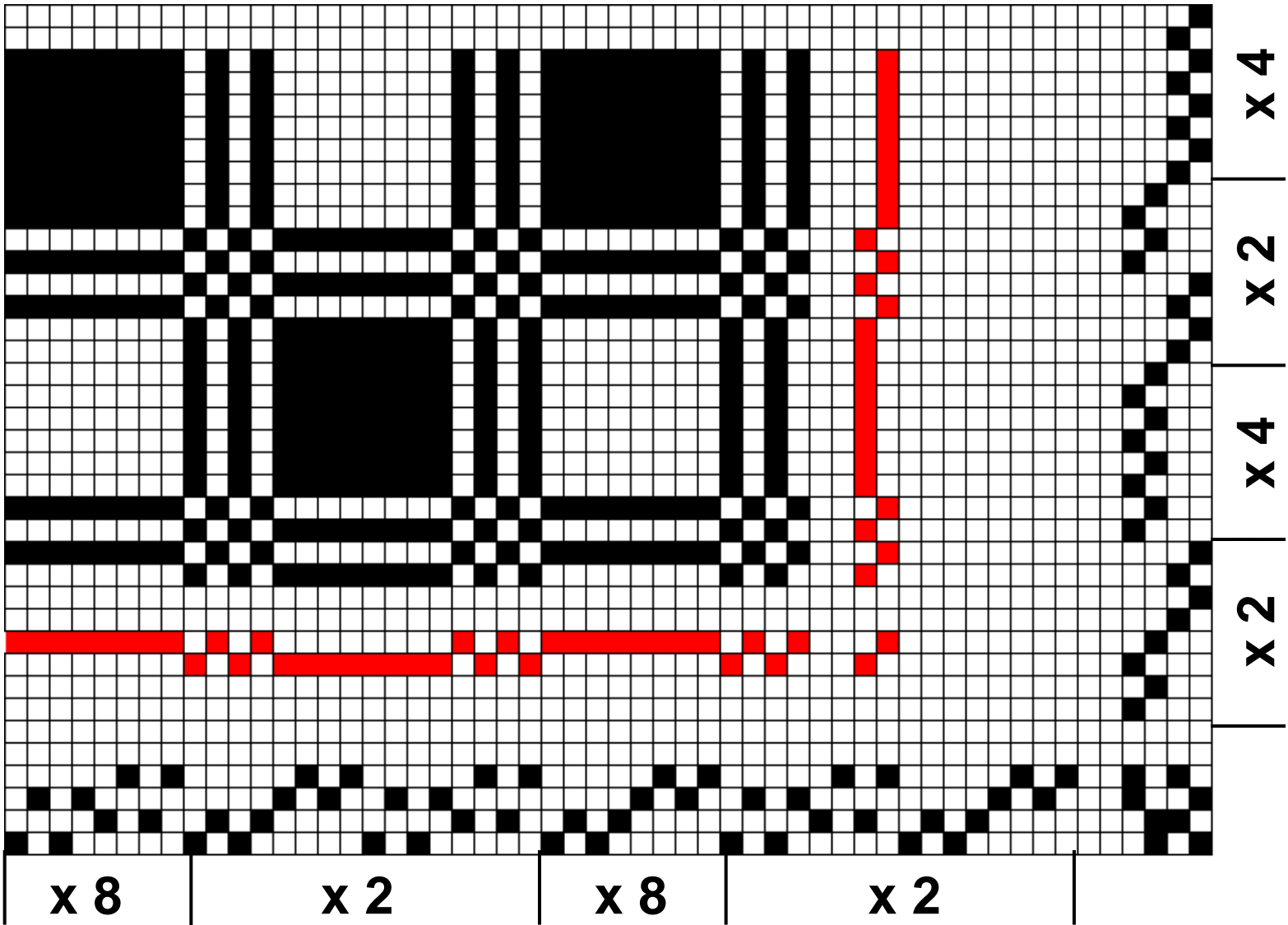




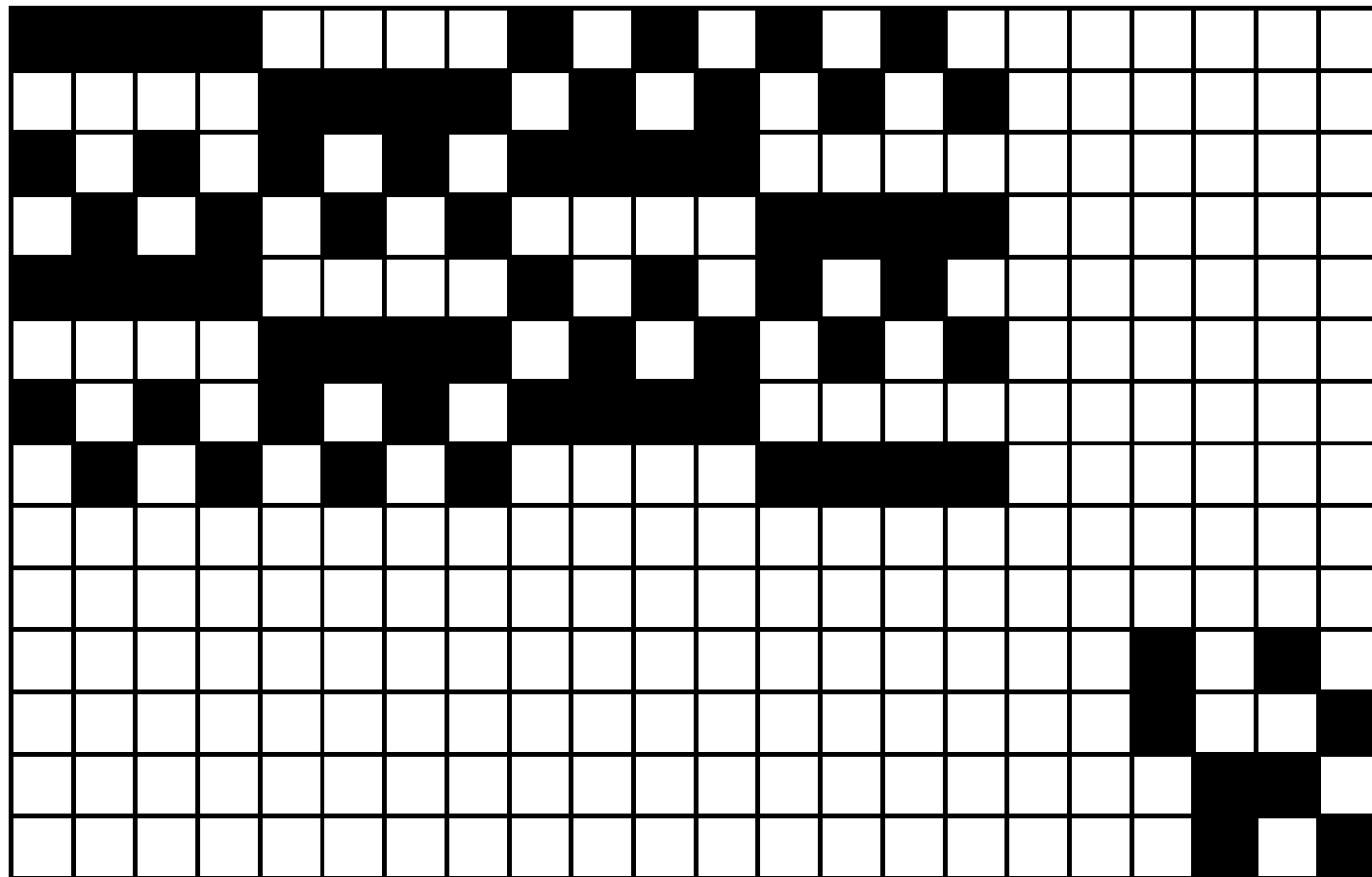
# Märgi lepalina nietus ja tallamine!



# Märgi lepalina niietus ja tallamine!



# Märgi lepalina niietus ja tallamine!

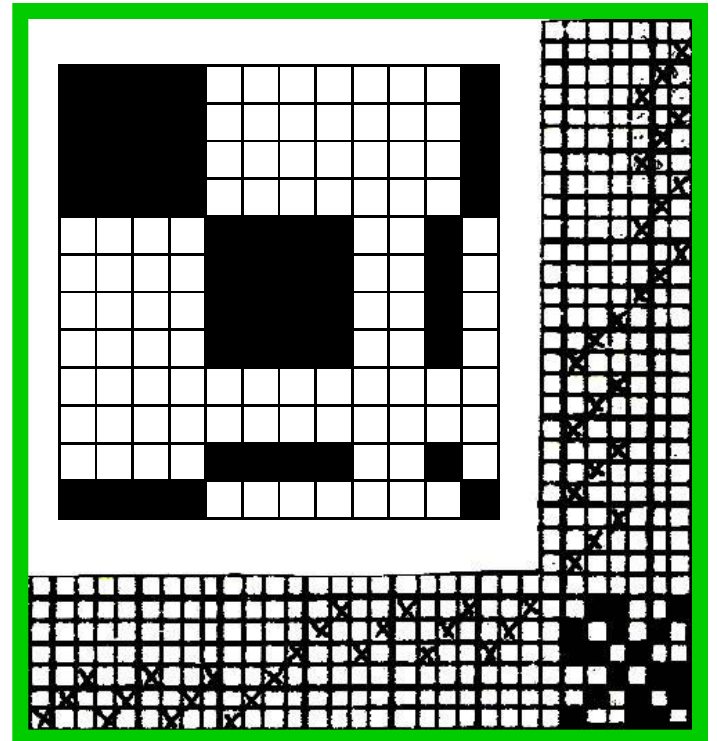




# c. Liitkangad



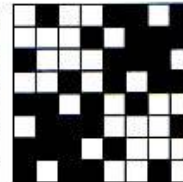
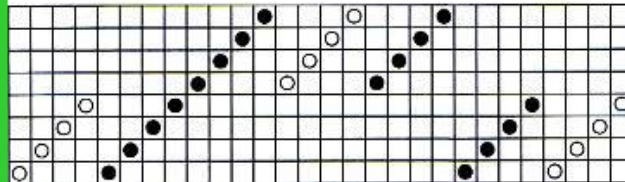
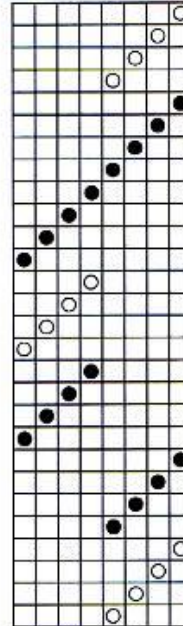
**Drell**





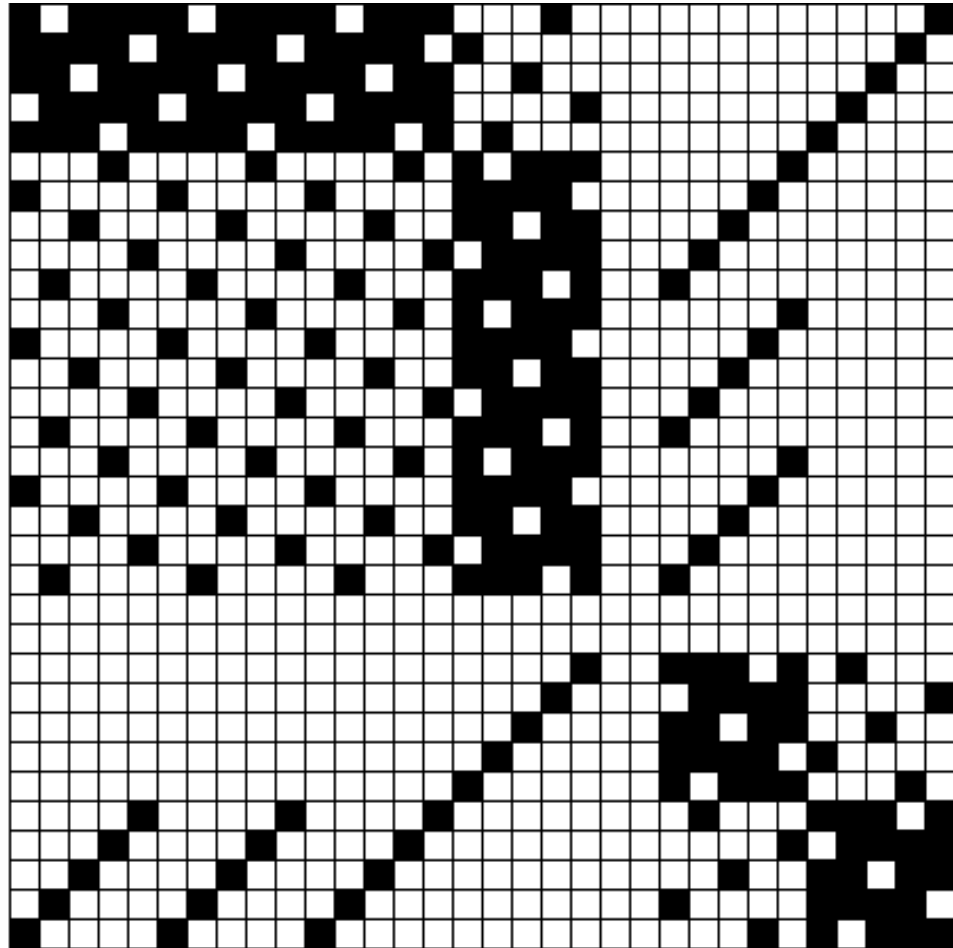
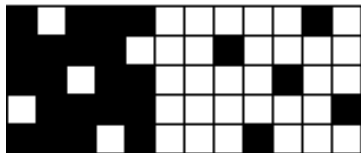
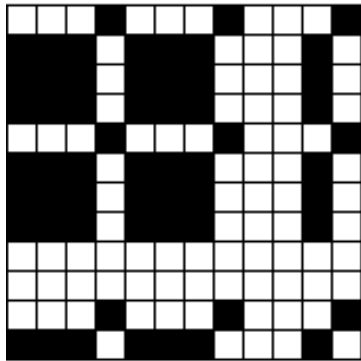
c. Liitkangad

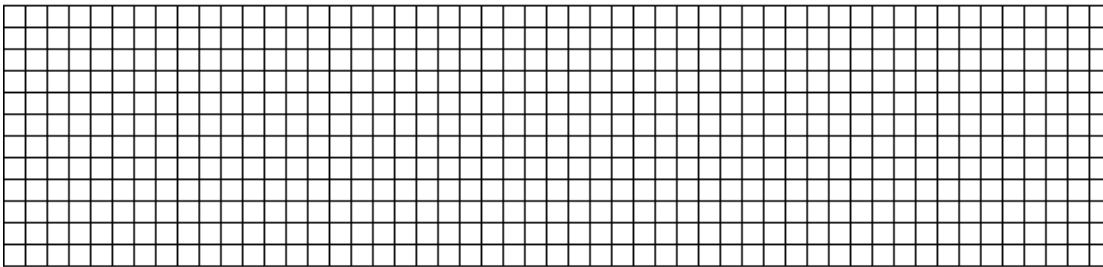
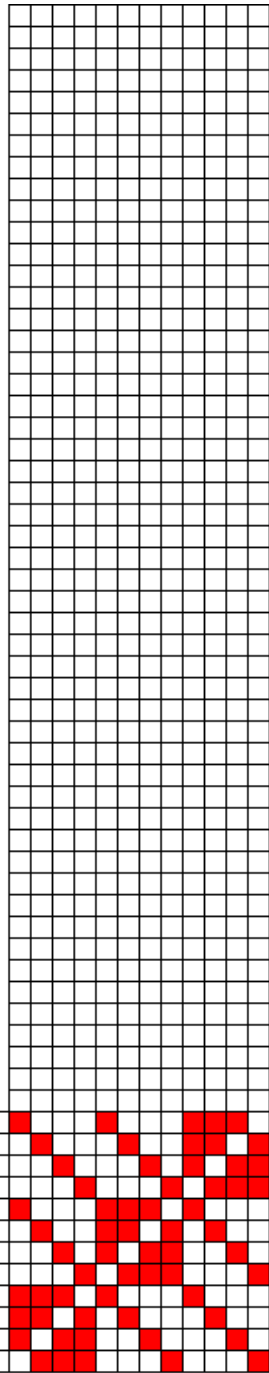
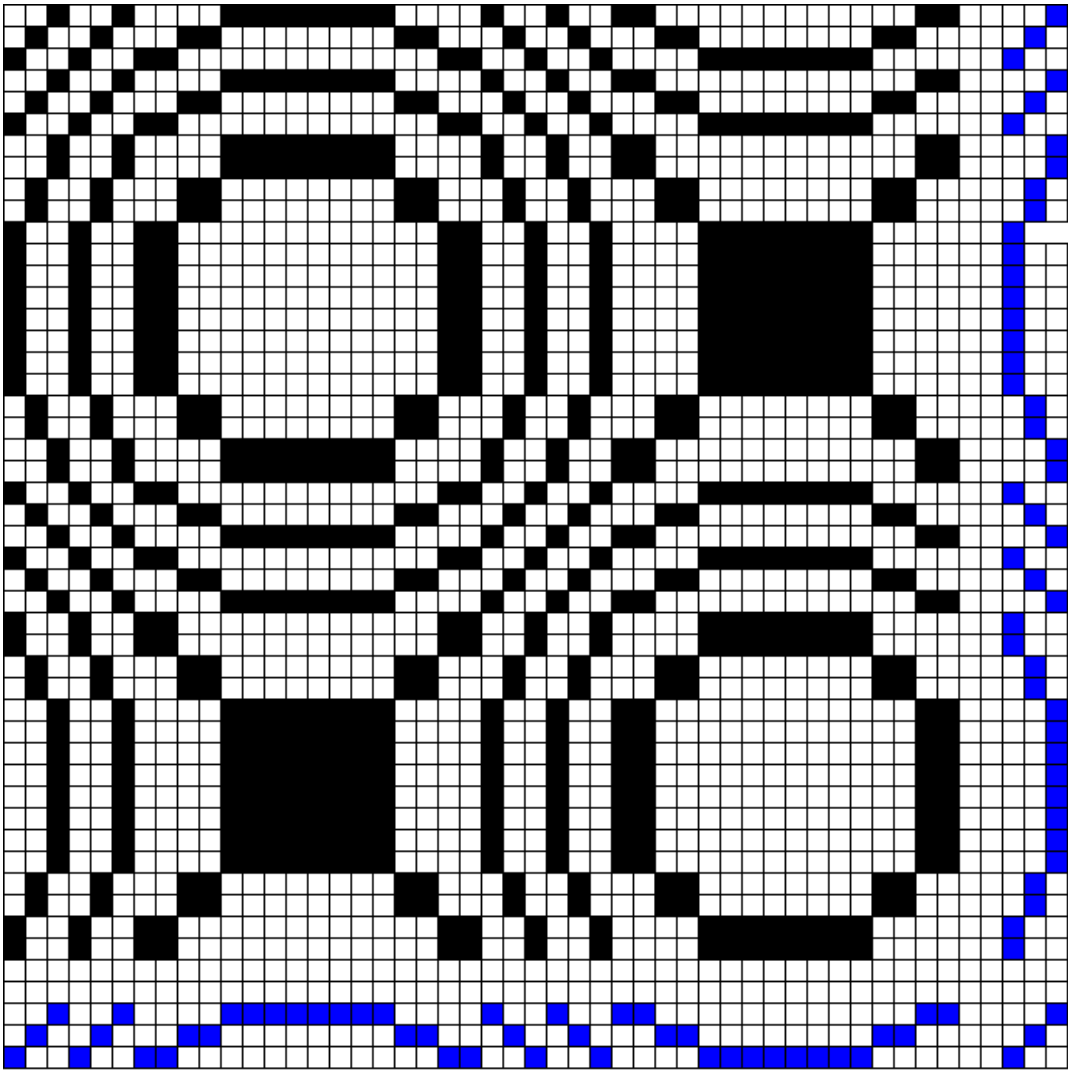
**Drell**



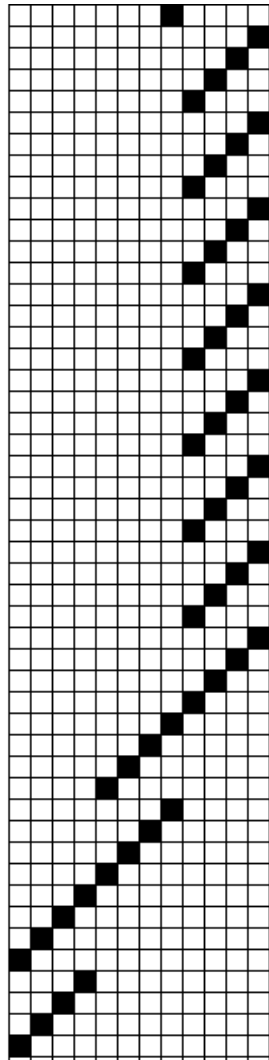
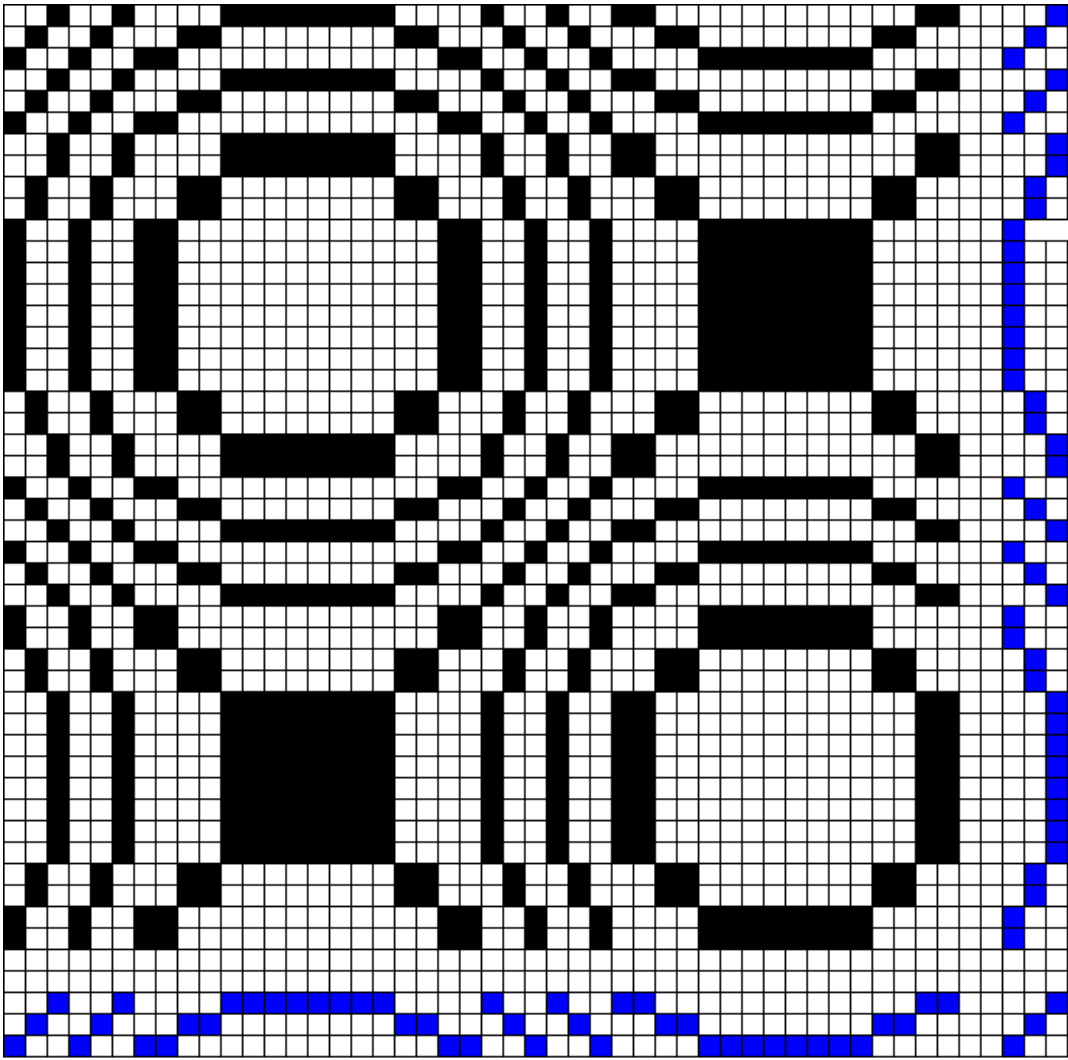
# c. Liitkangad

**Drell**

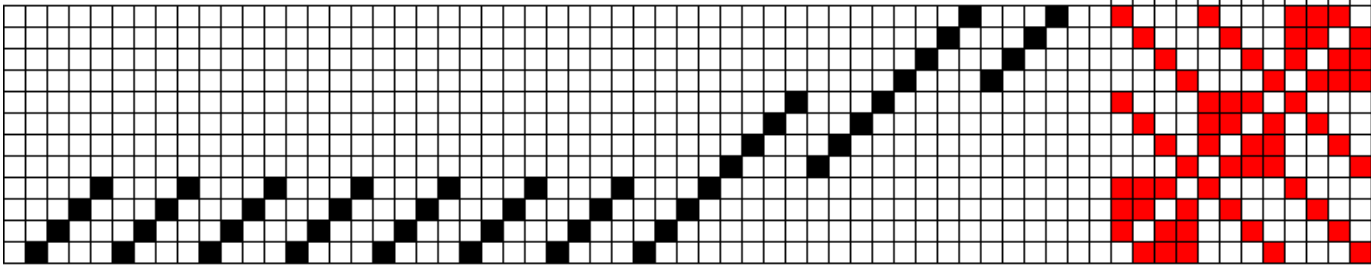








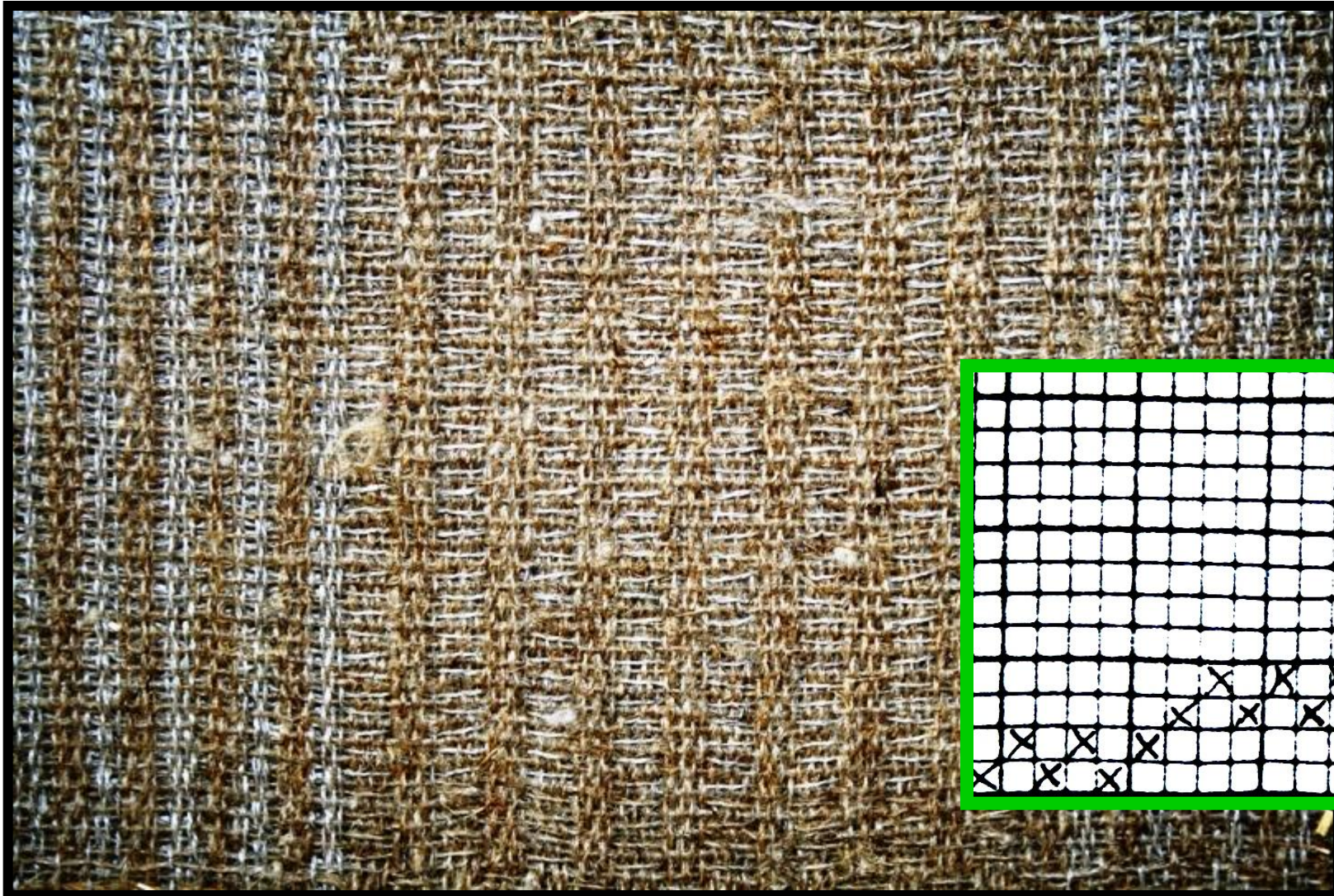
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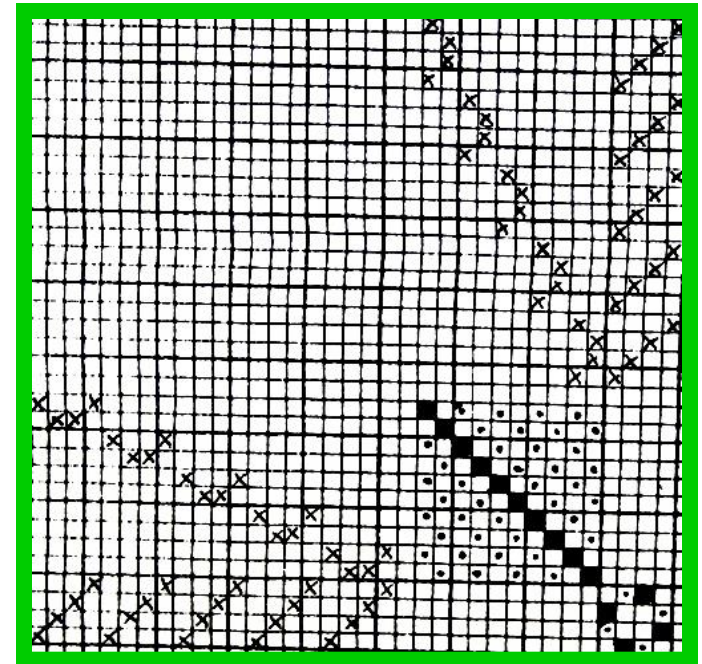
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c. Liitkangad

**Seadrell**



# c. Liitkangad Drell pikksilmniitega



# c. Liitkangad Damast





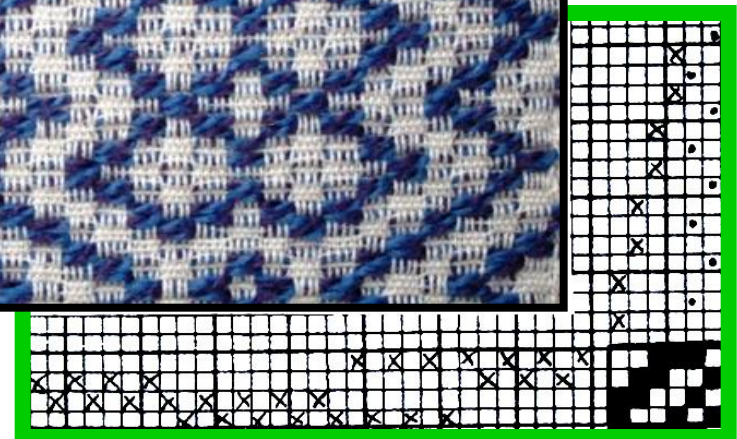
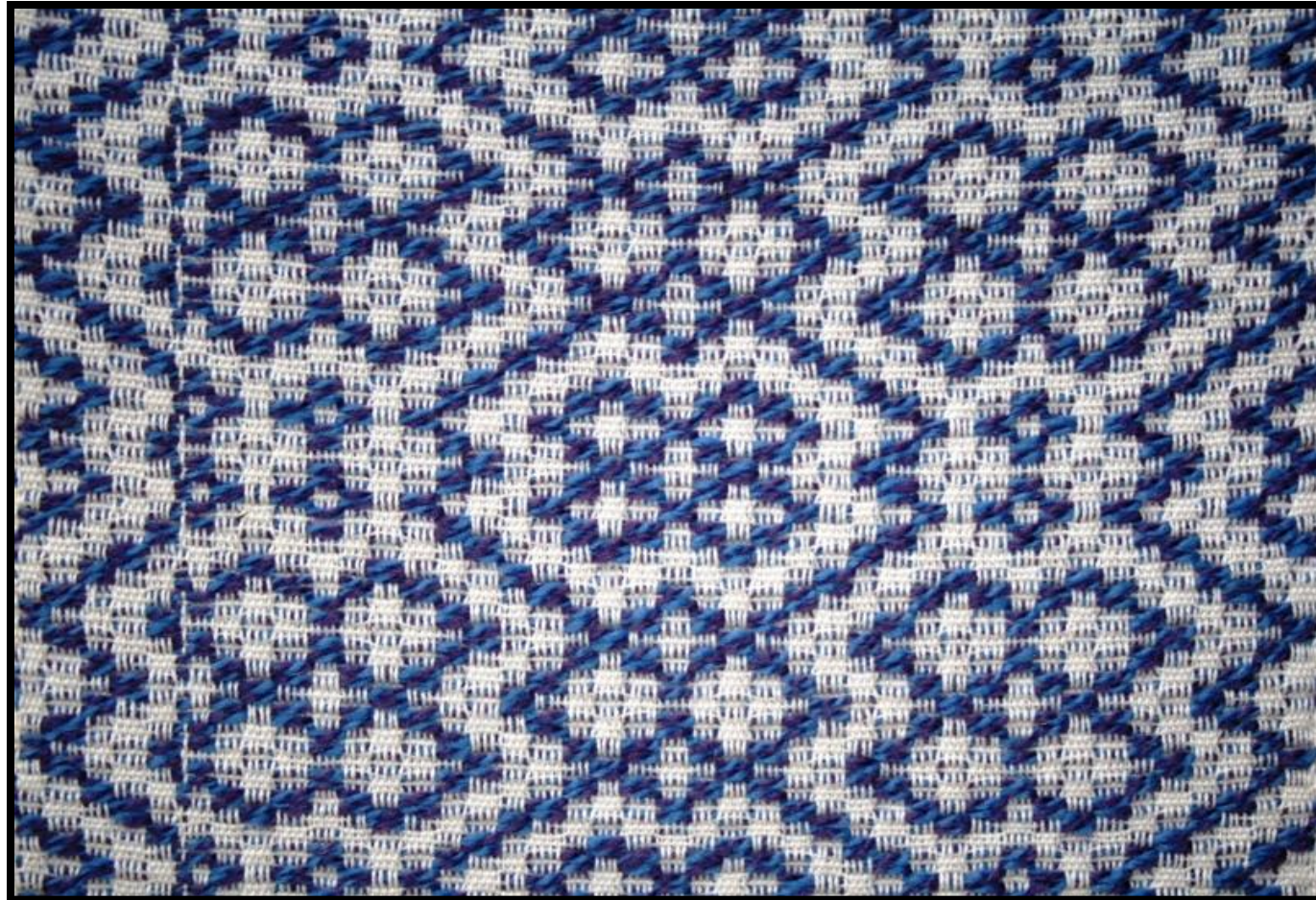
# **KANGATEHNIKAD**

**II Lisalõngasüsteemidega  
kangad**

**A. KIRIKANGAD**

# A. KIRIKANGAD

## Daaladrell



# Daaladrell

Suurendus toimub järgmiselt: esimesele algniiele vastavad **1** ja **2** niis,



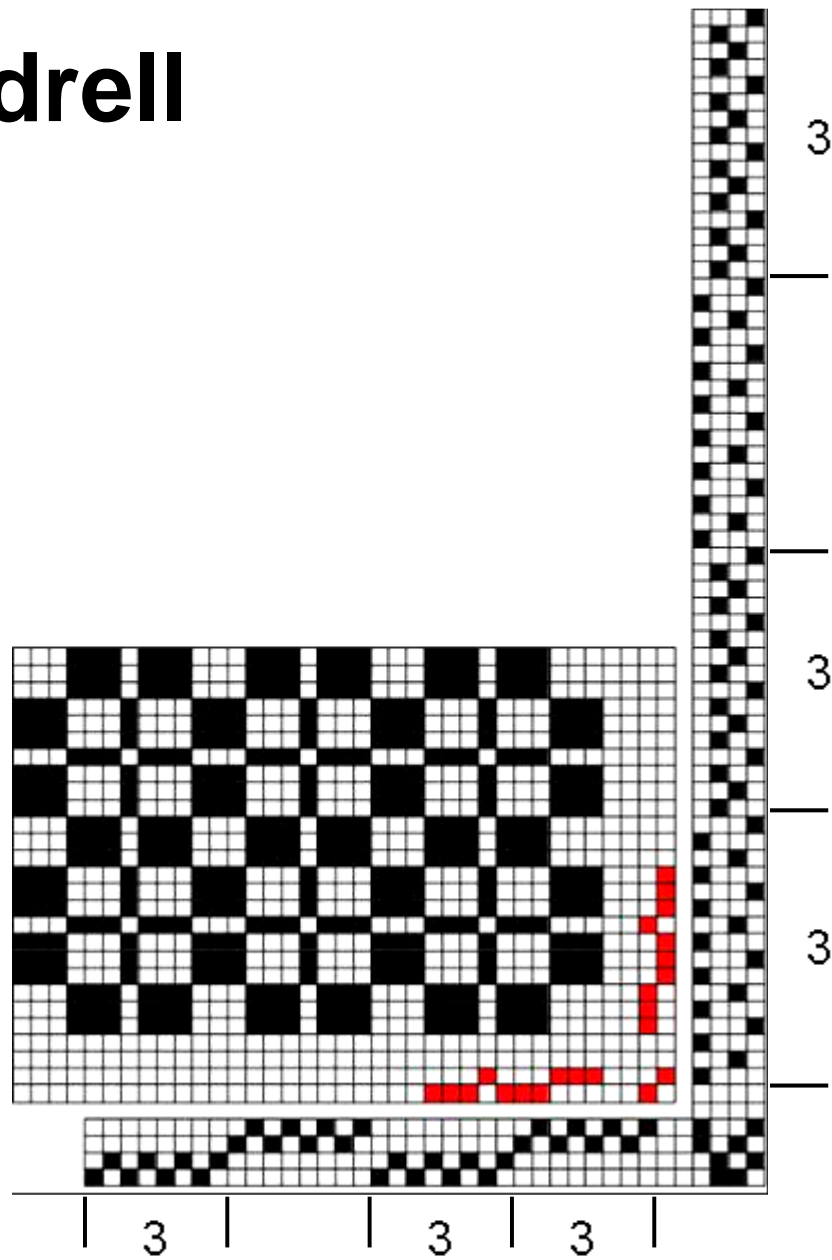
teisele algniiele vastavad **3** ja **2** niis,

kolmandale algniiele vastavad **3** ja **4** niis,

neljandale algniiele vastavad **1** ja **4** niis.

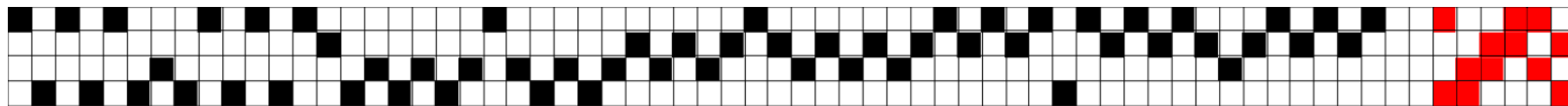
Kirjaosale vastav arv lõngu niietatakse vastavalt niiepaarile vaheldumisi.

# Daaladrell



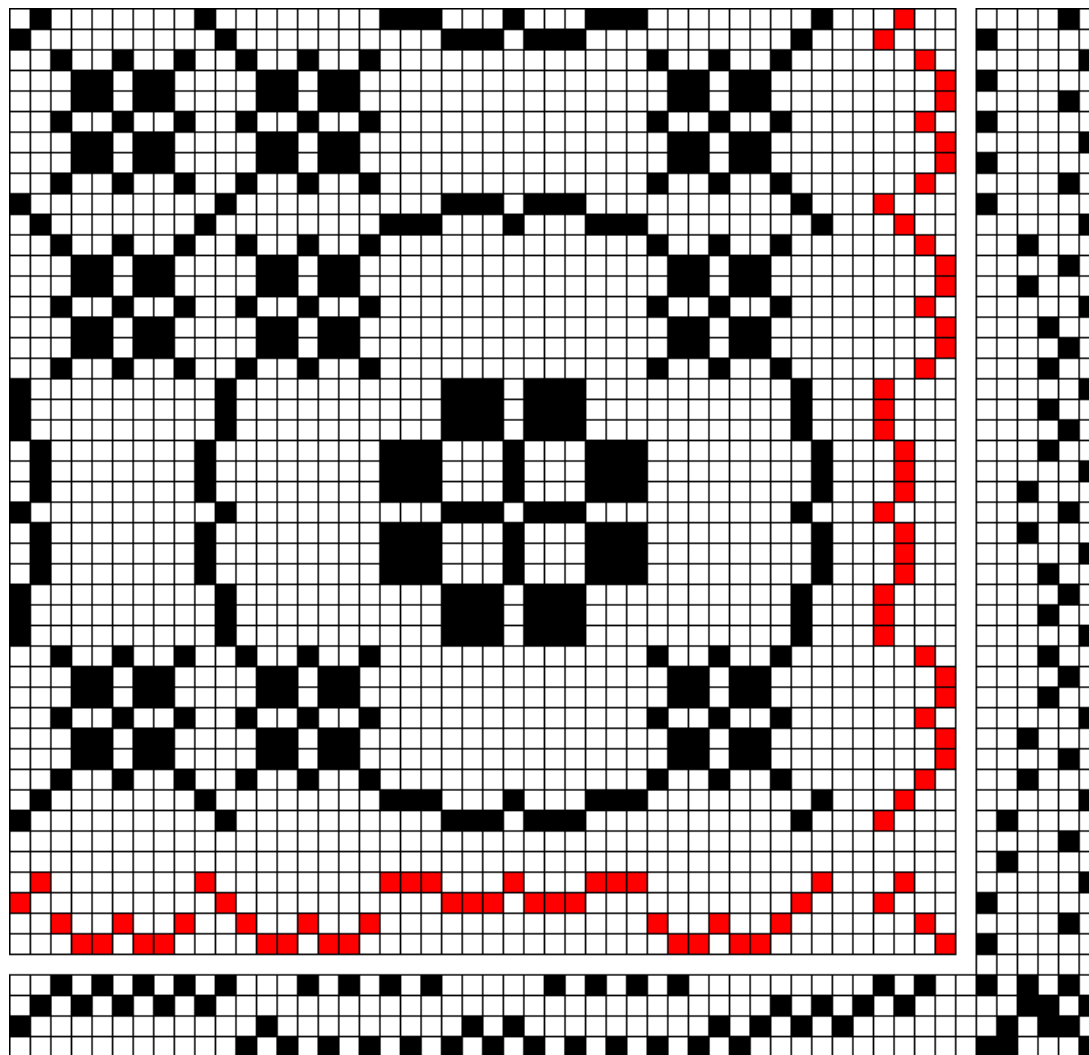


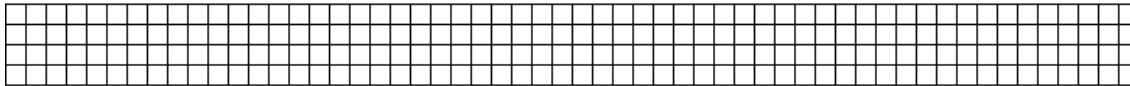
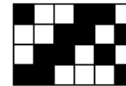
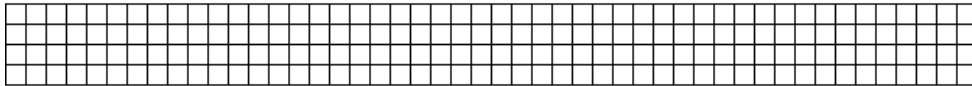
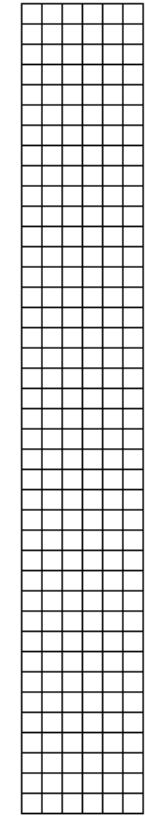
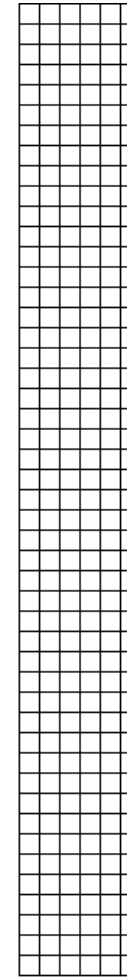
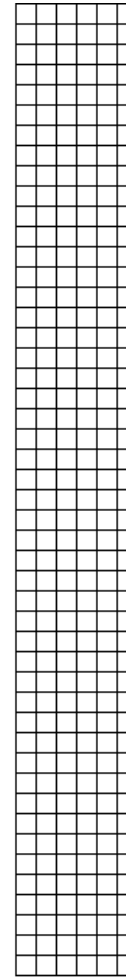
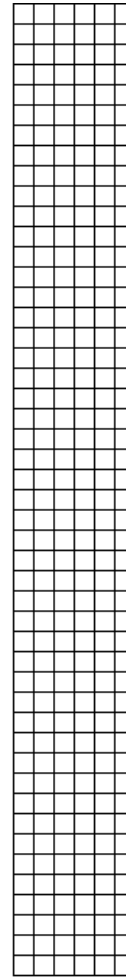
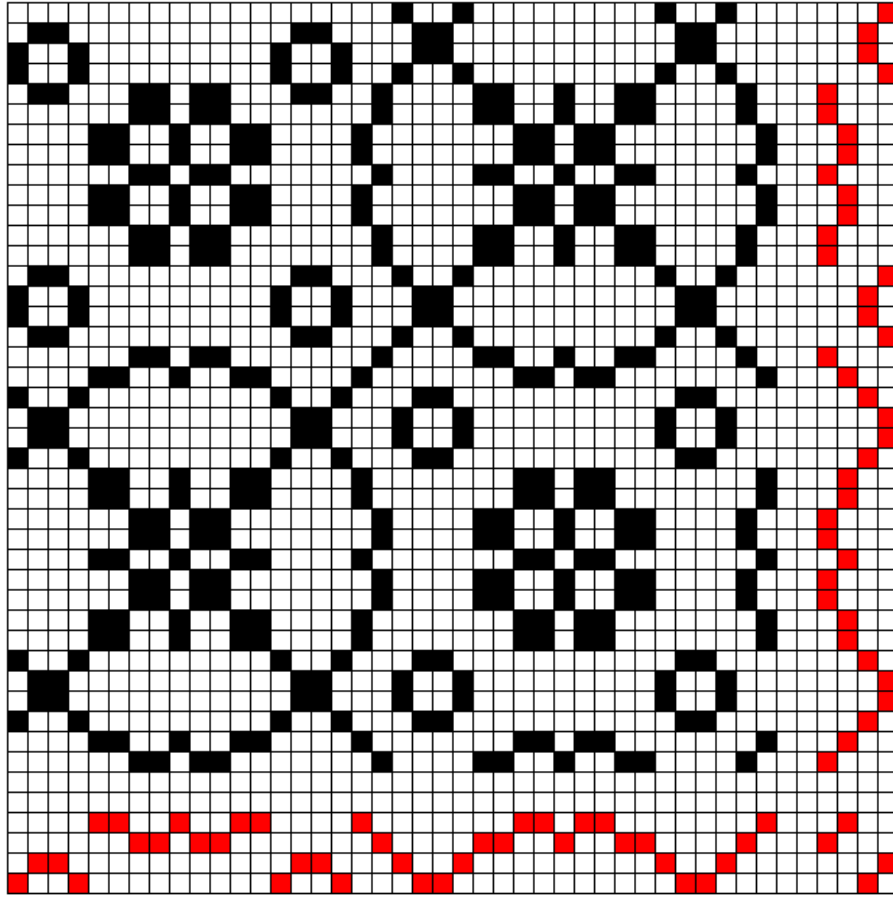
# Daaladrell

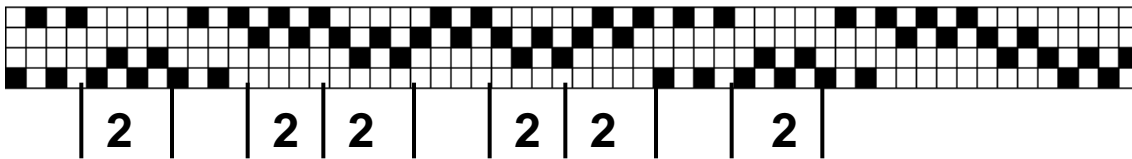
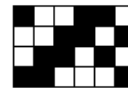
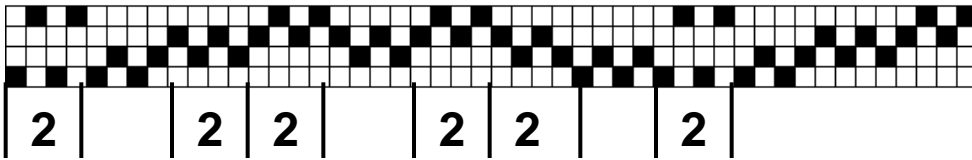
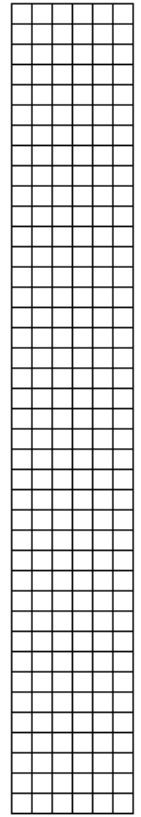
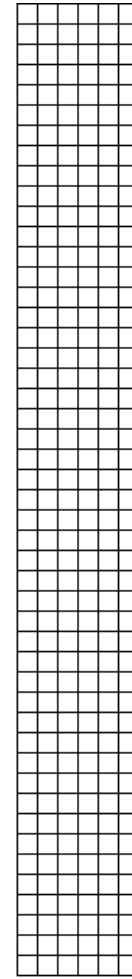
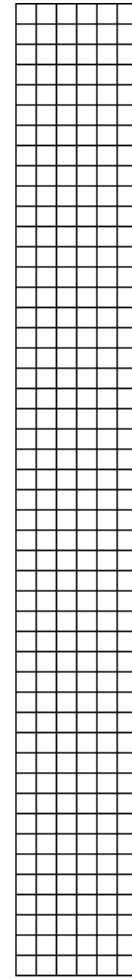
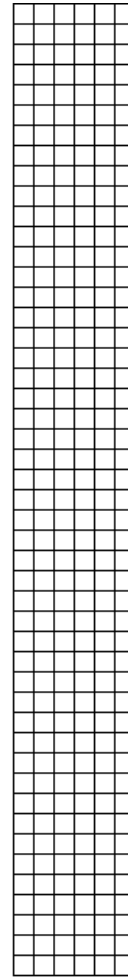
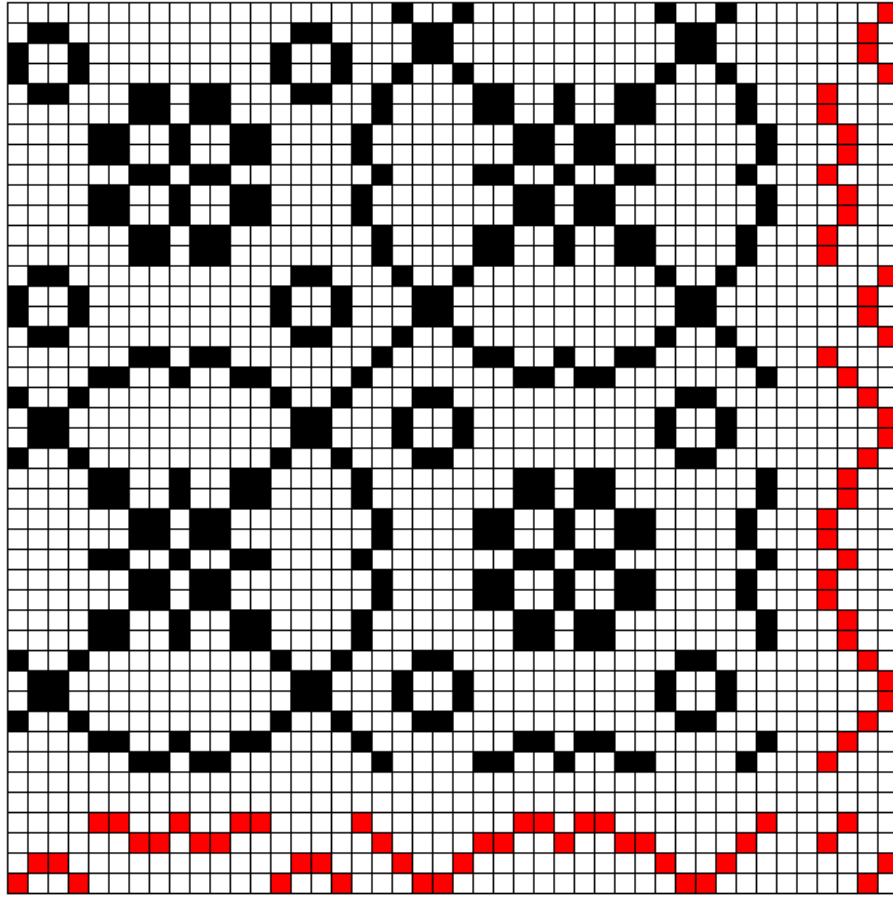


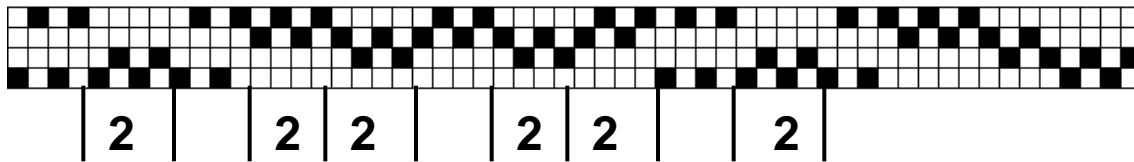
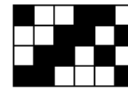
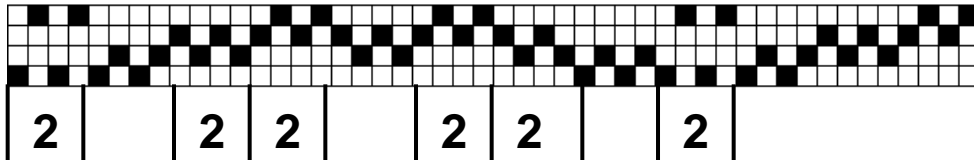
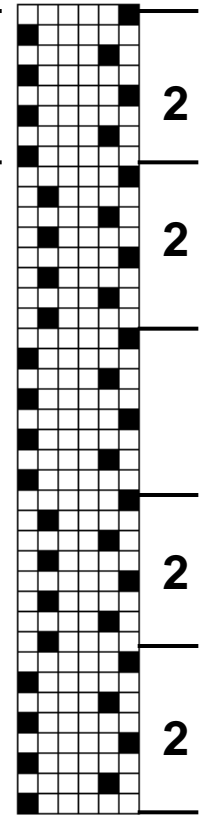
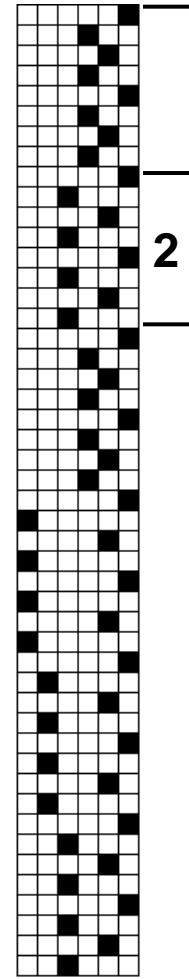
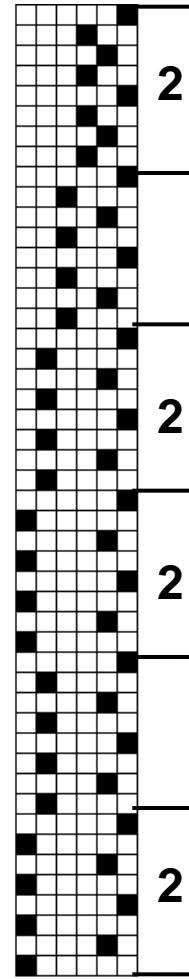
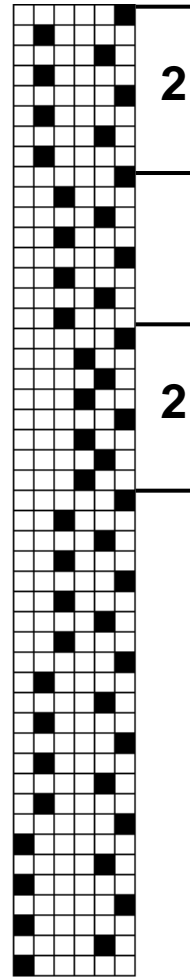
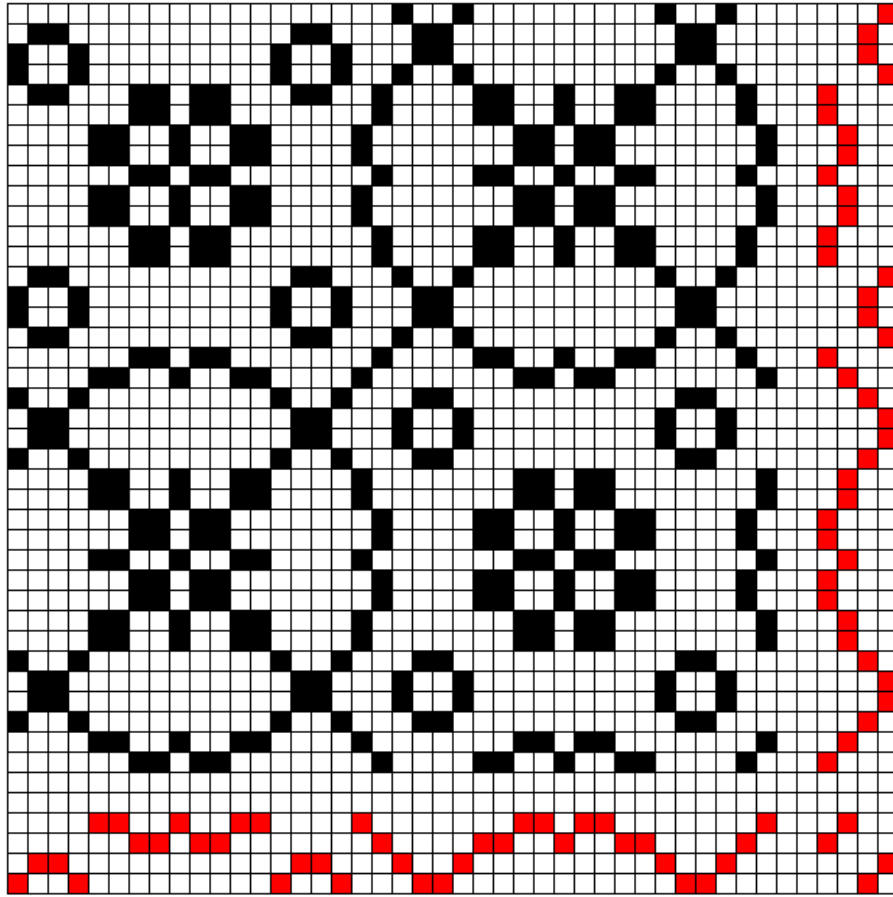
**pikkade lõngajooksude sidumine**

# Daaladrell

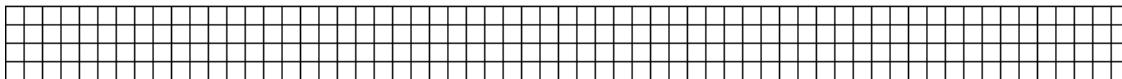
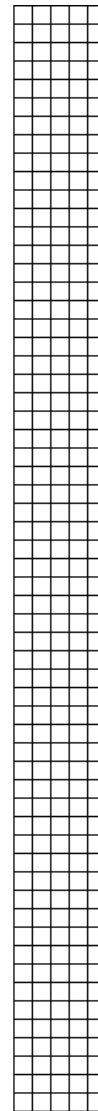
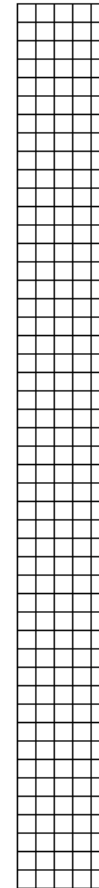
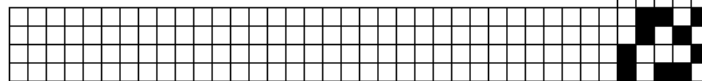
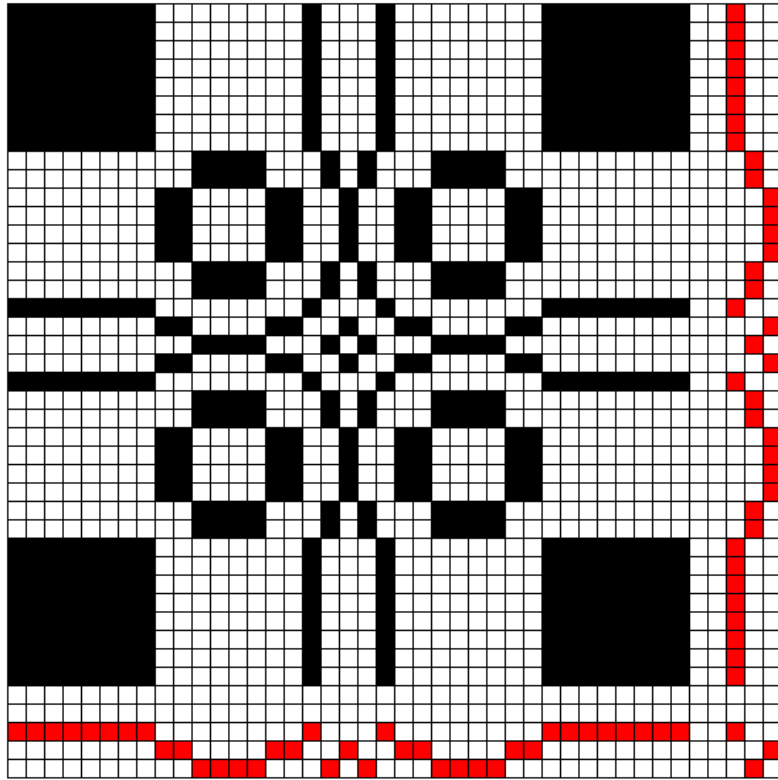




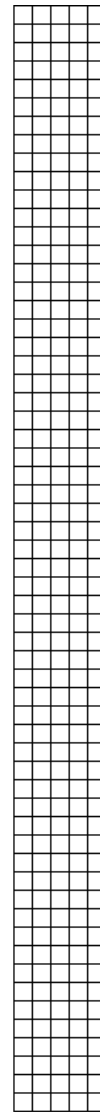
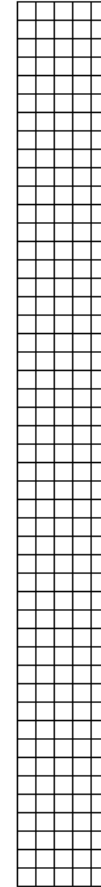
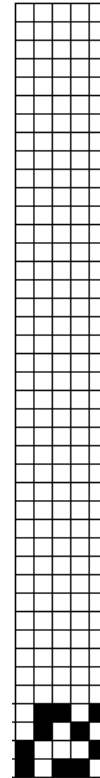
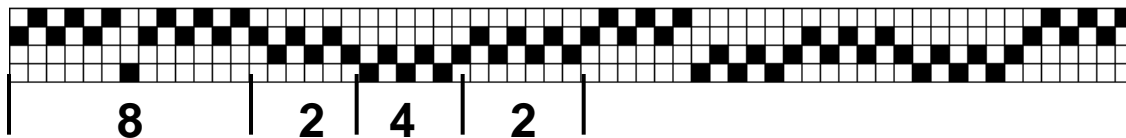
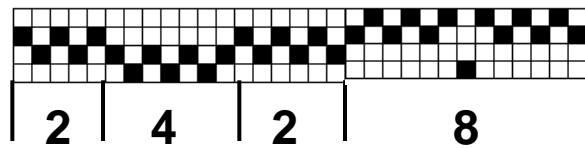
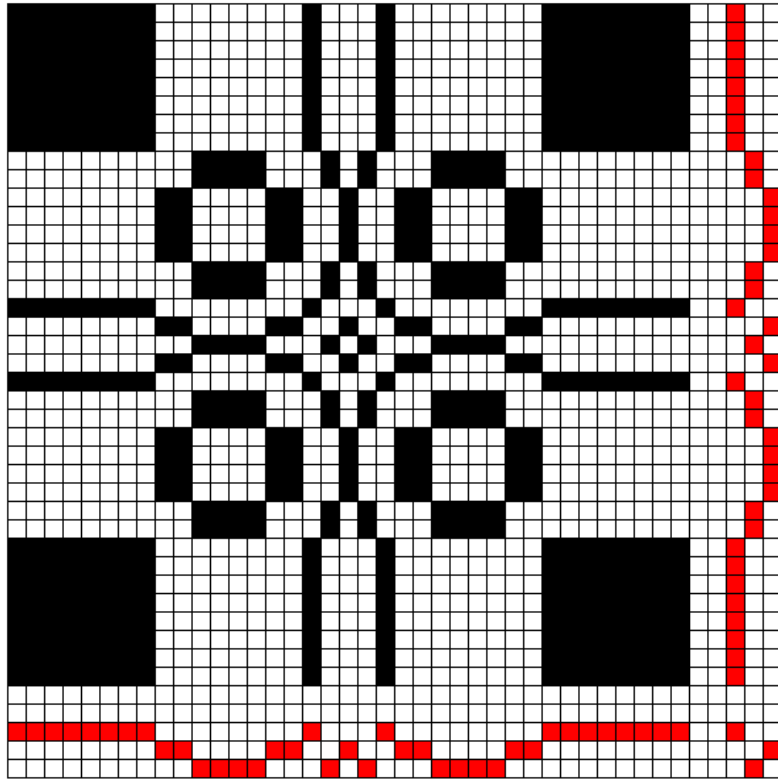




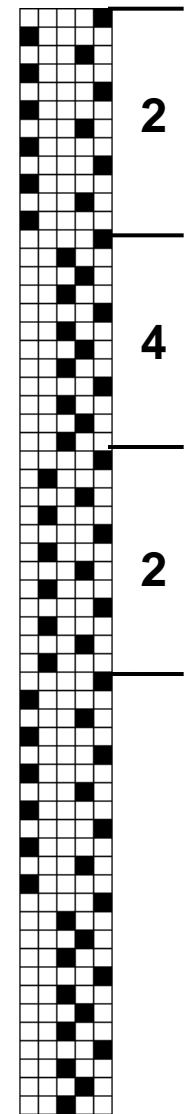
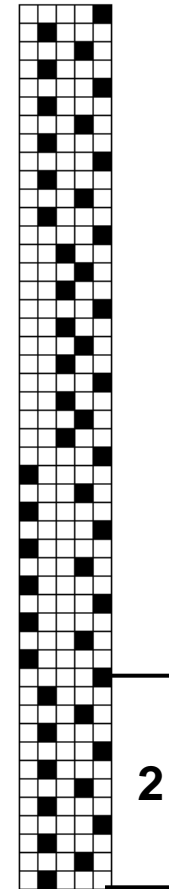
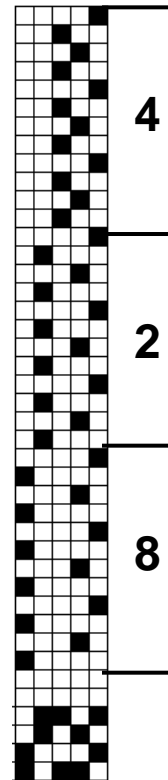
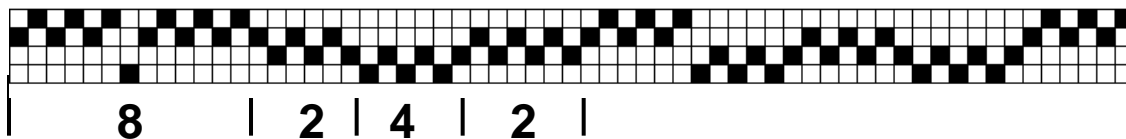
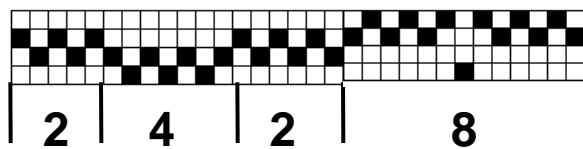
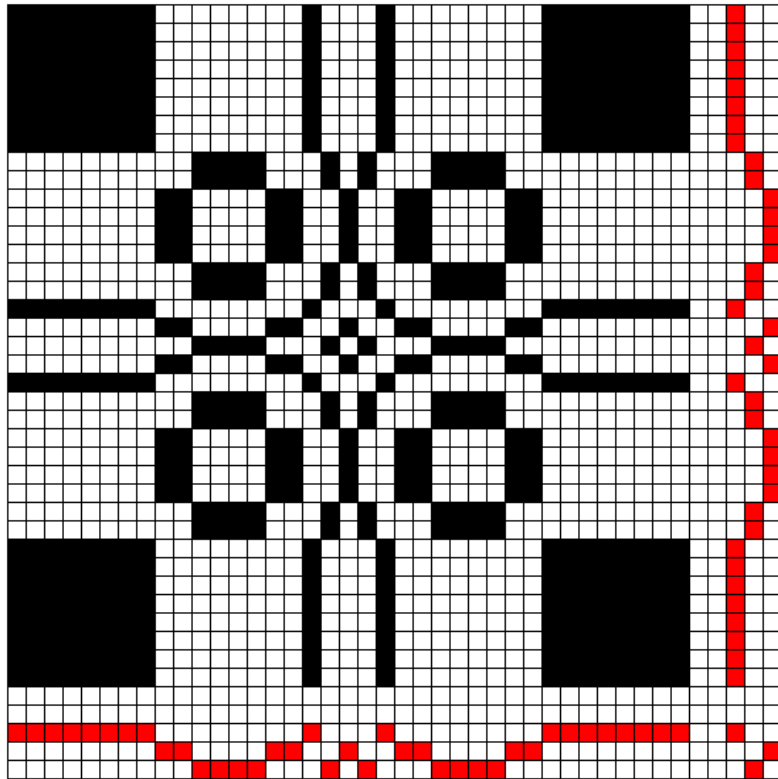
# Daaladrell (6 ja 3-ga)



# Daaladrell (6 ja 3-ga)



# Daaladrell (6 ja 3-ga)

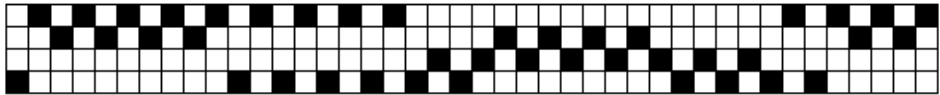
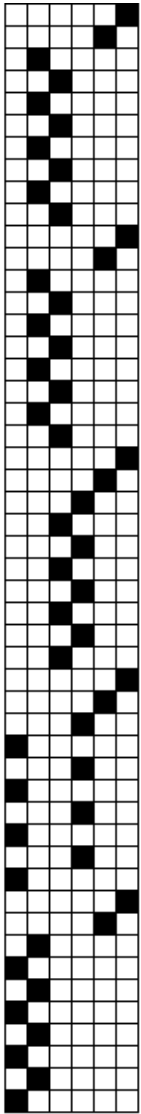
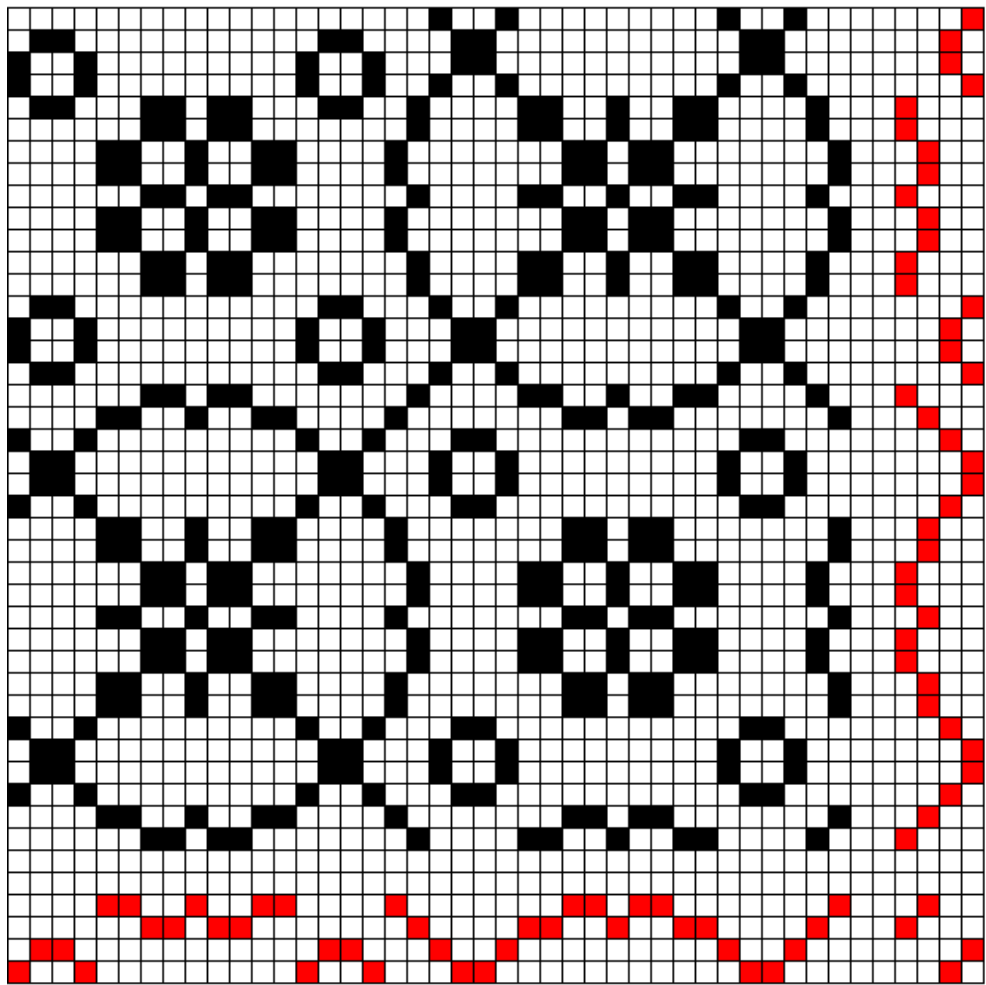




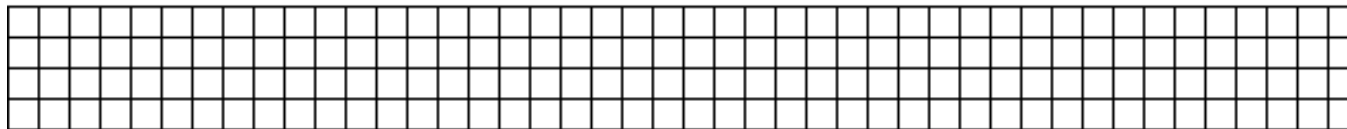
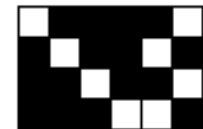
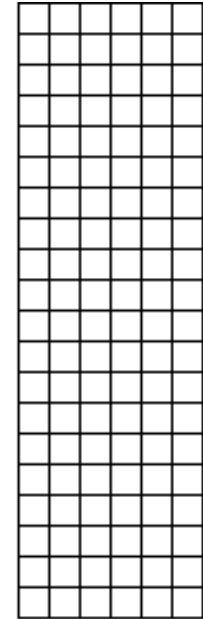
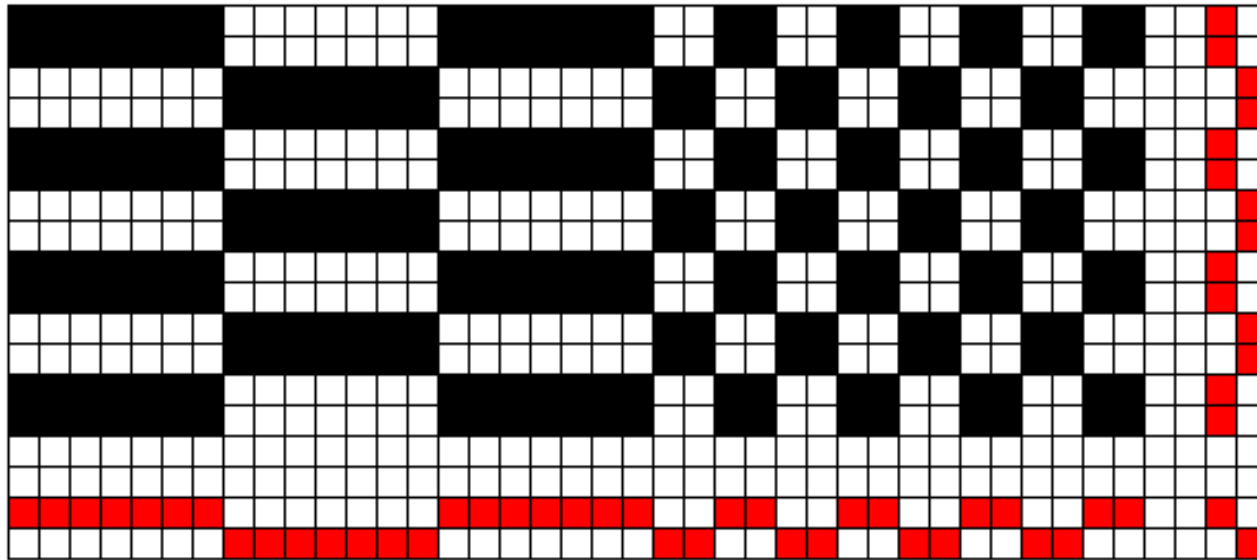
# A. KIRIKANGAD

## Pitsikangas

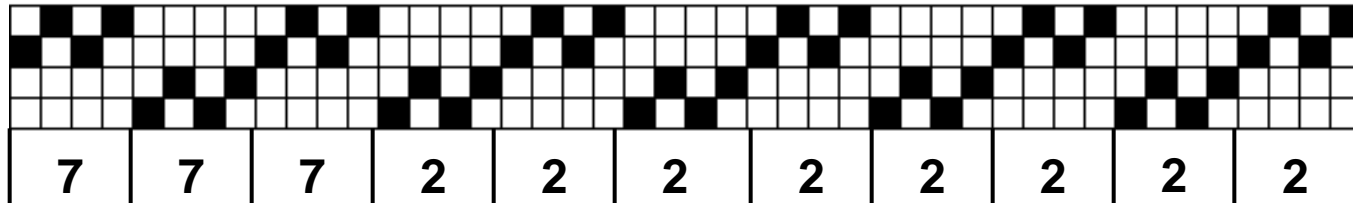
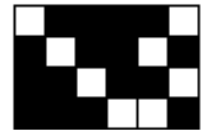
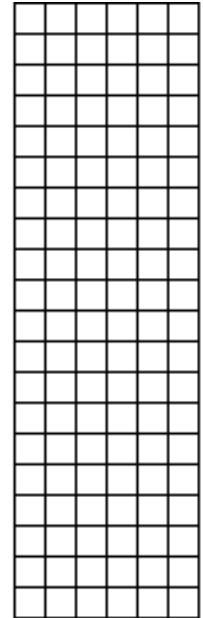
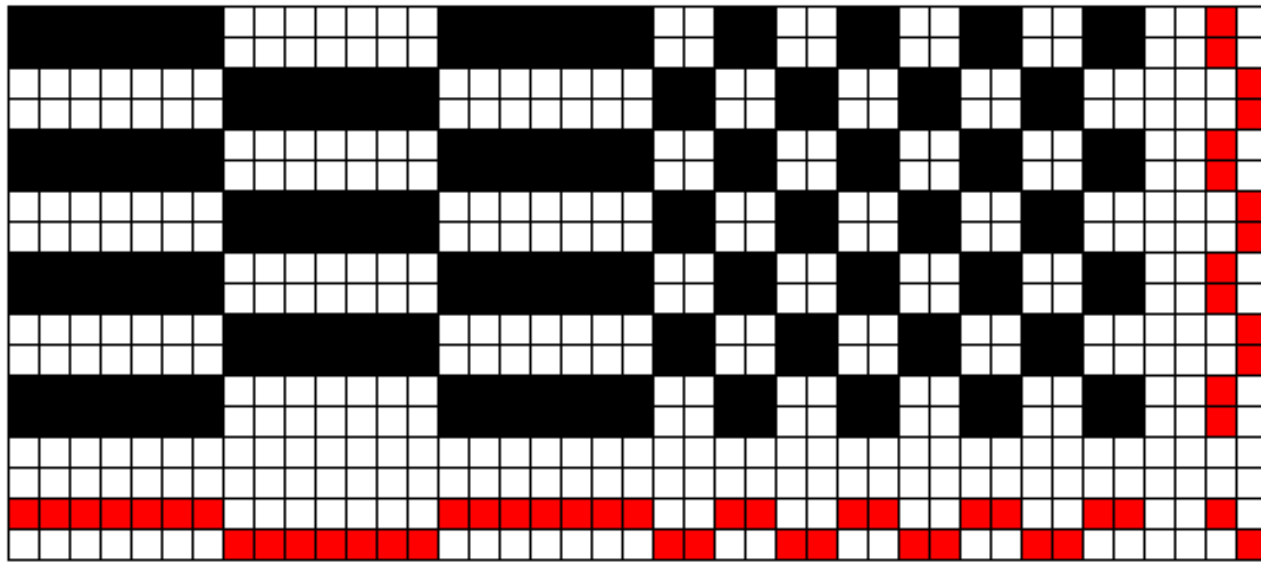




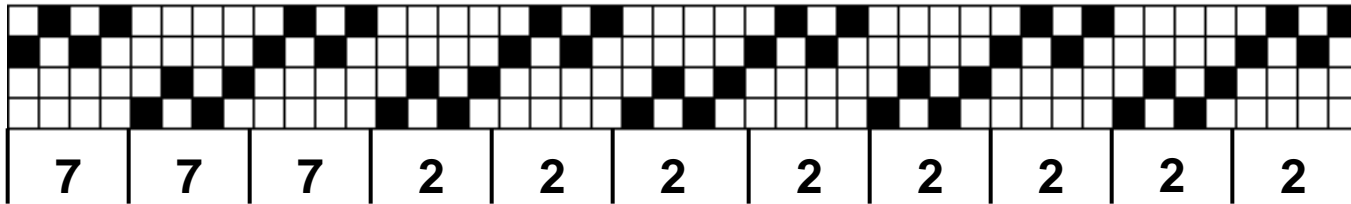
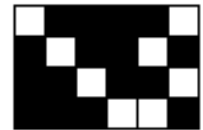
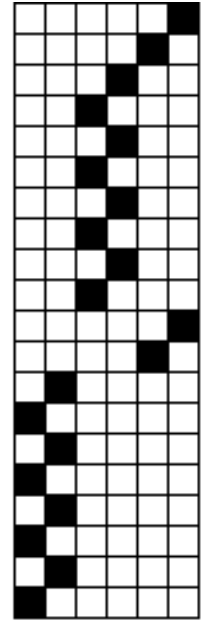
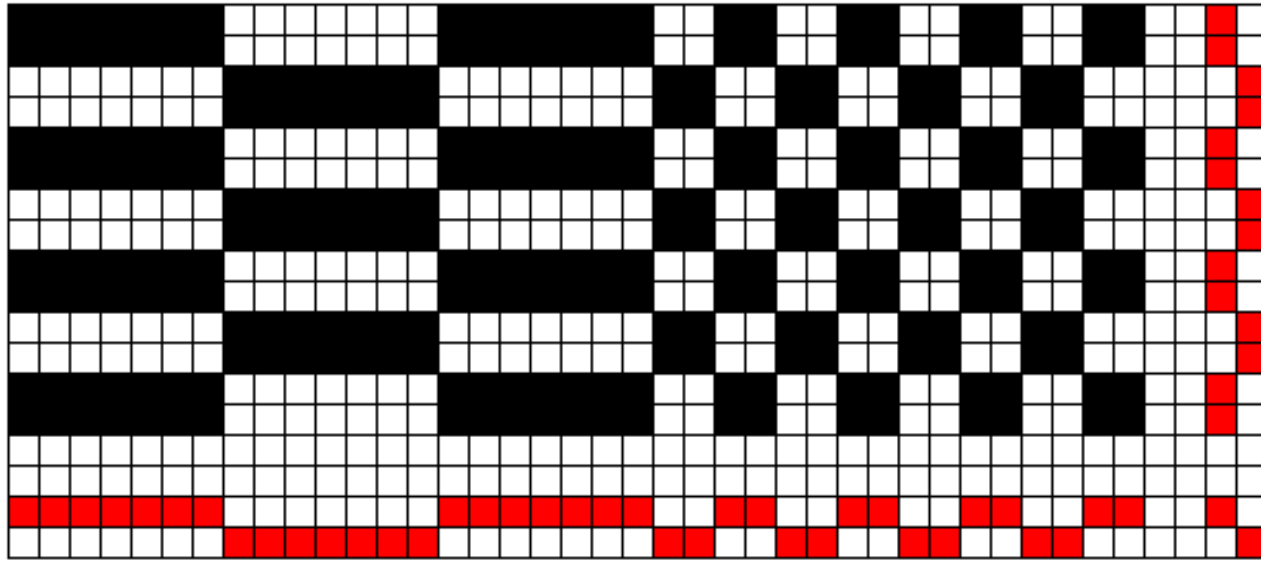
# Märgi rakendus!



# Märgi rakendus!



# Märgi rakendus!



7

7

7

2

2

2

2

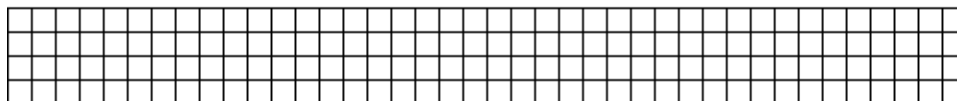
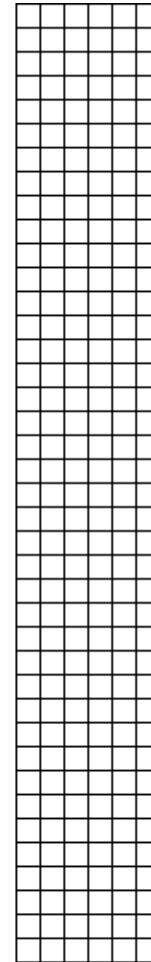
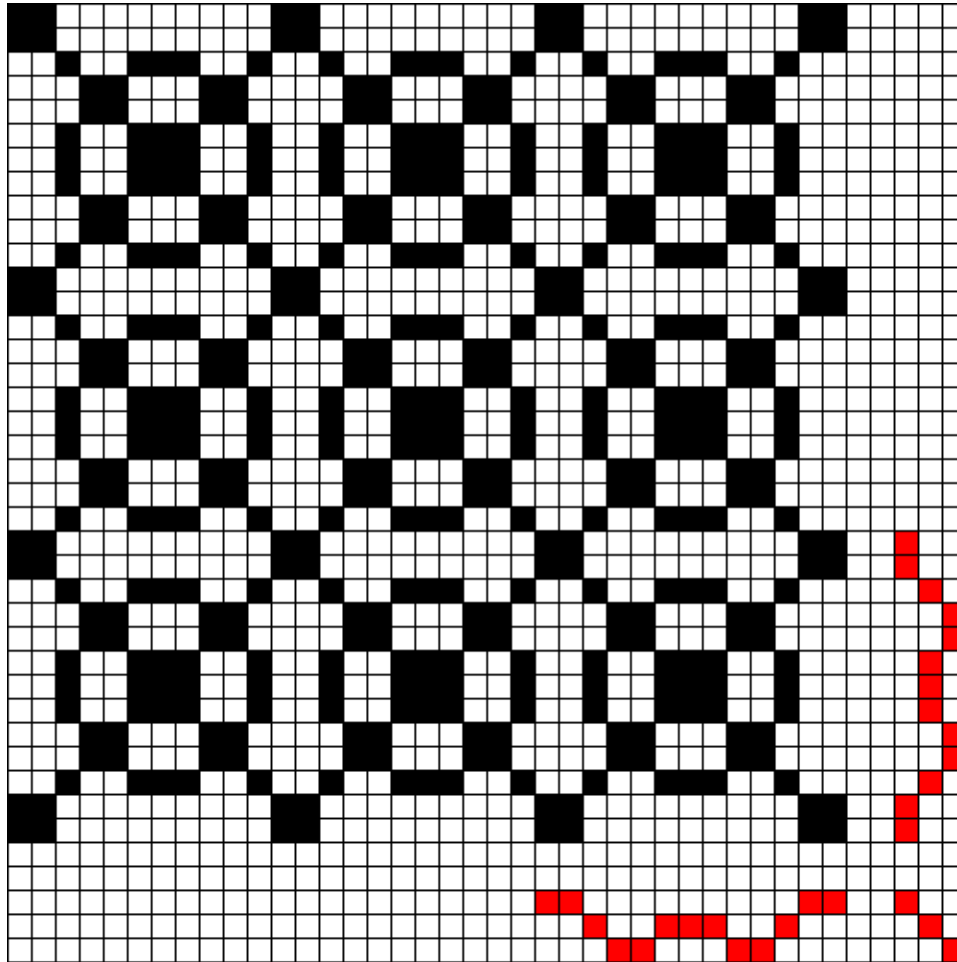
2

2

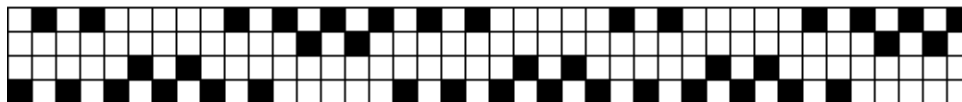
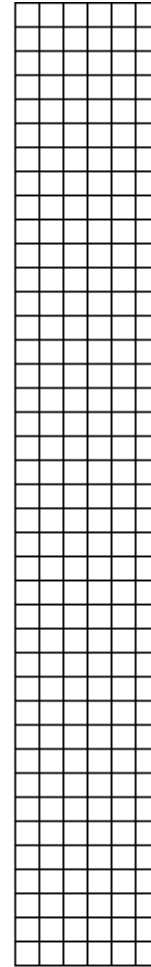
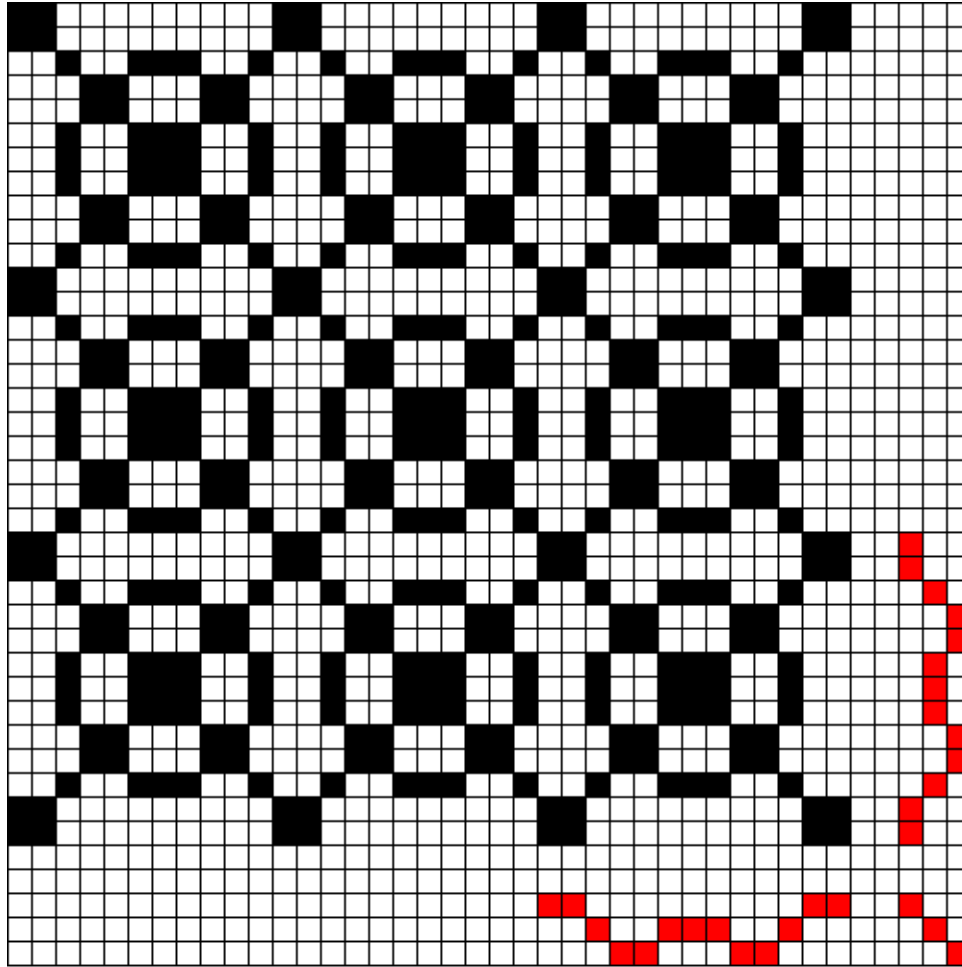
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2

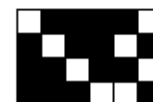
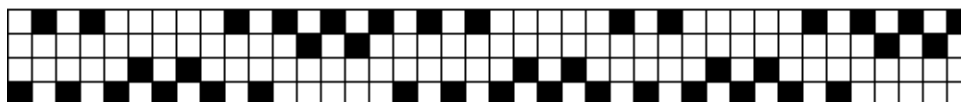
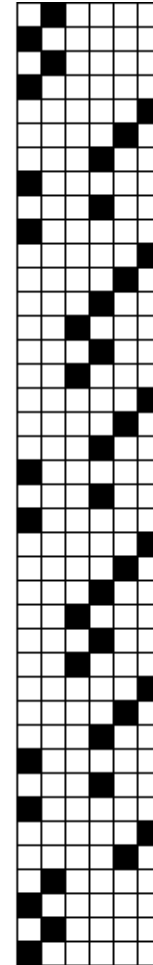
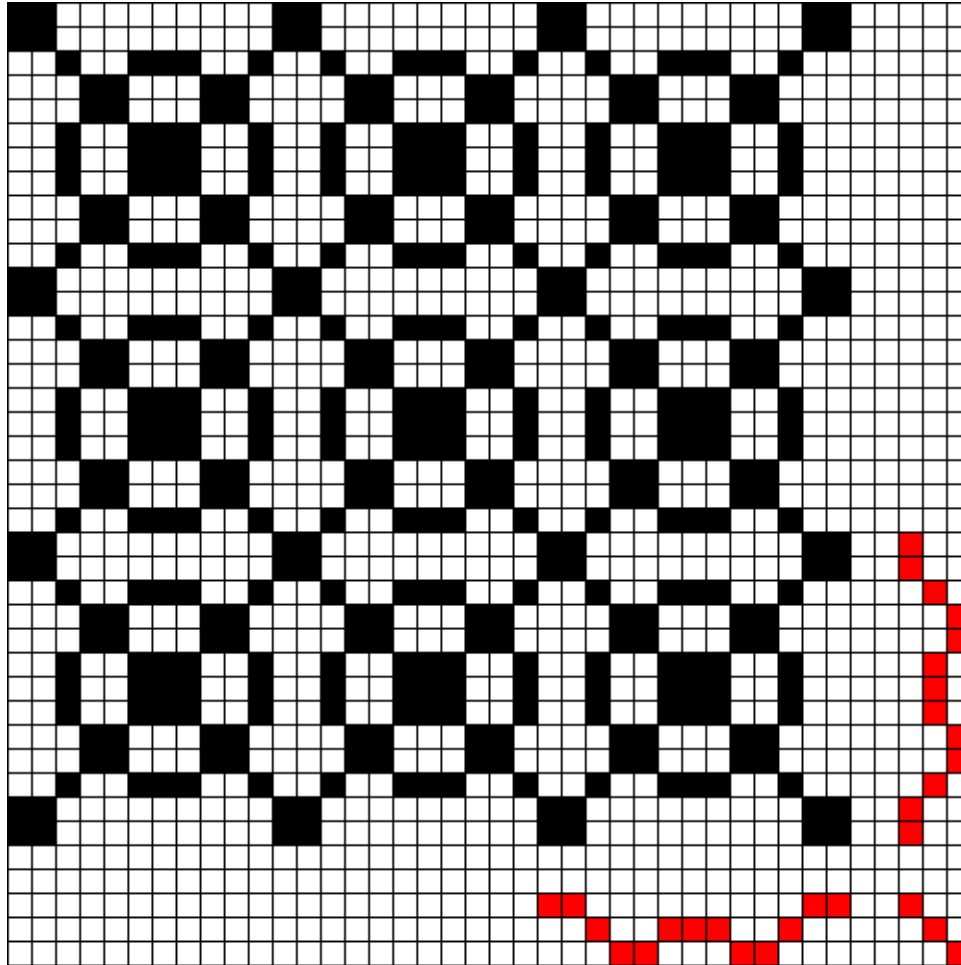
# Märgi rakendus!



# Märgi rakendus!

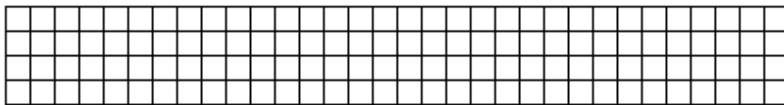
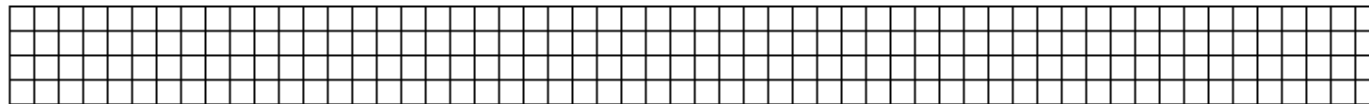
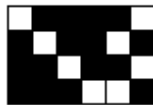
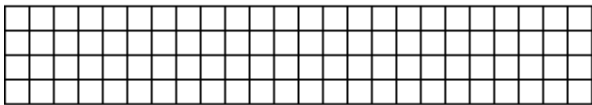
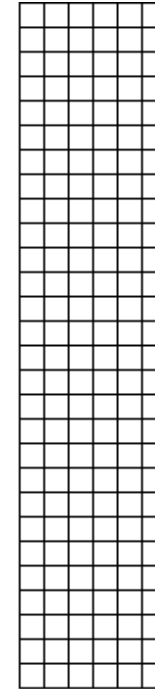
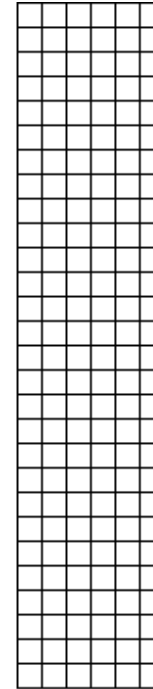
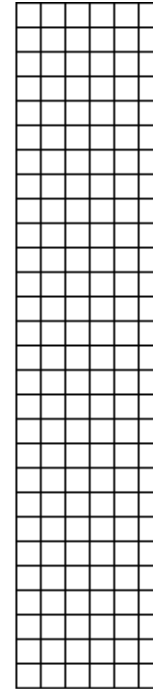
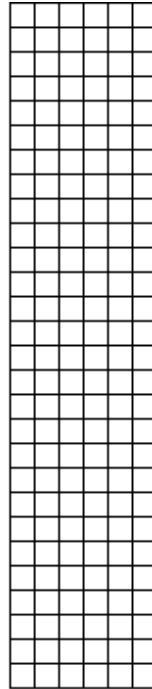
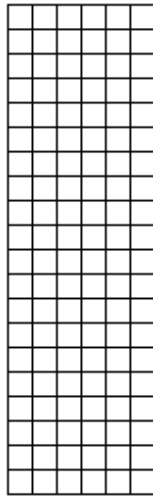
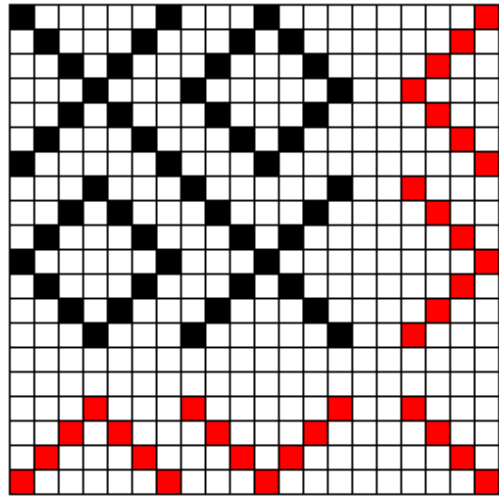


# Märgi rakendus!

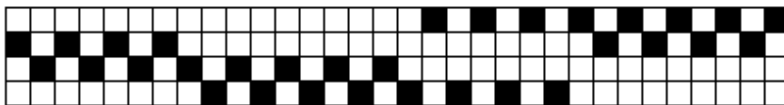
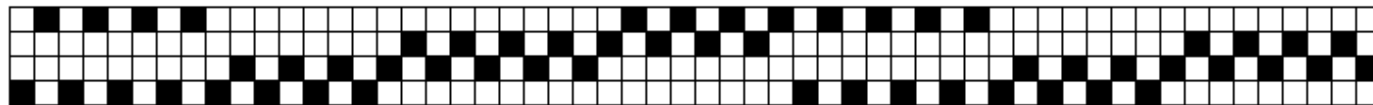
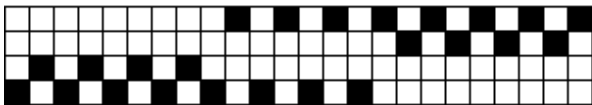
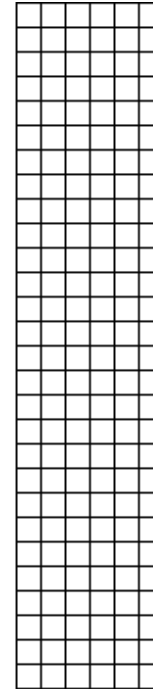
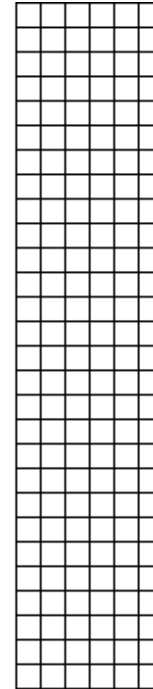
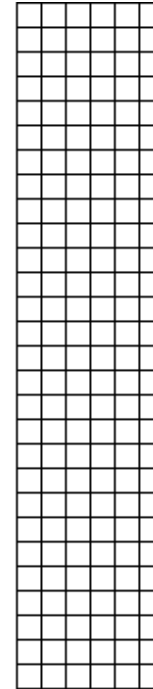
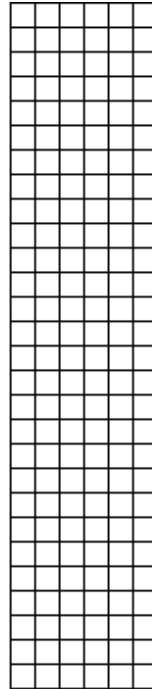
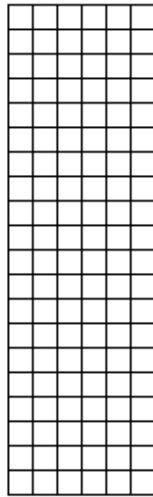
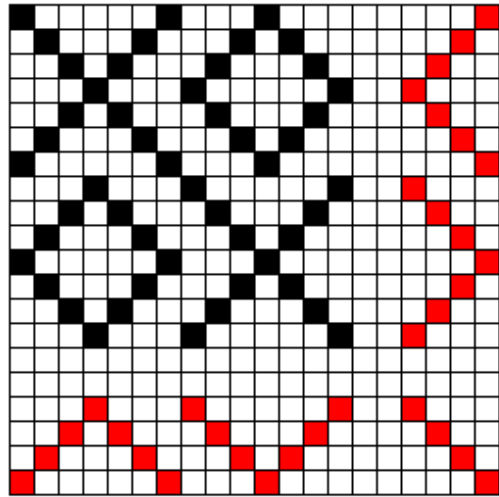




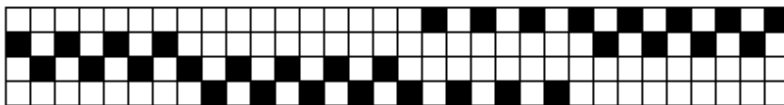
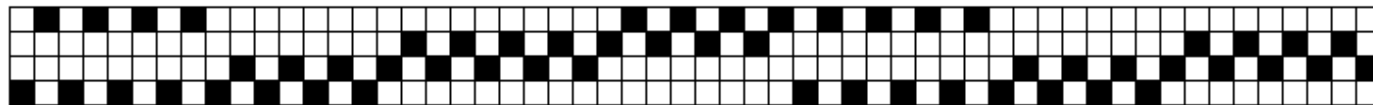
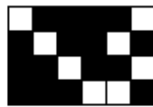
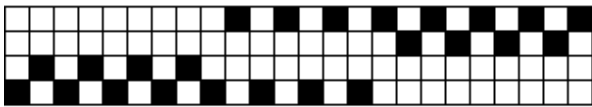
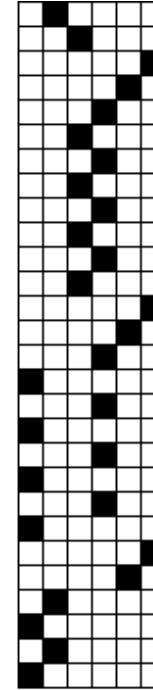
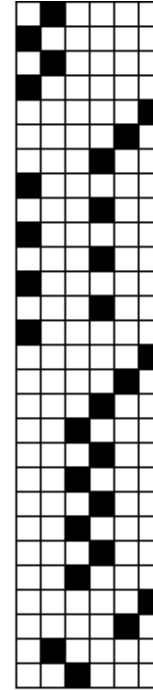
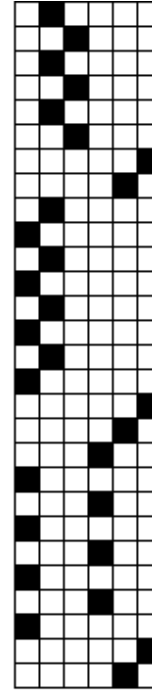
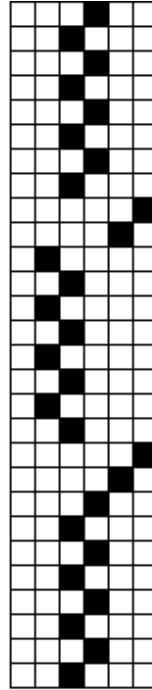
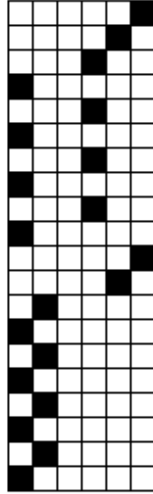
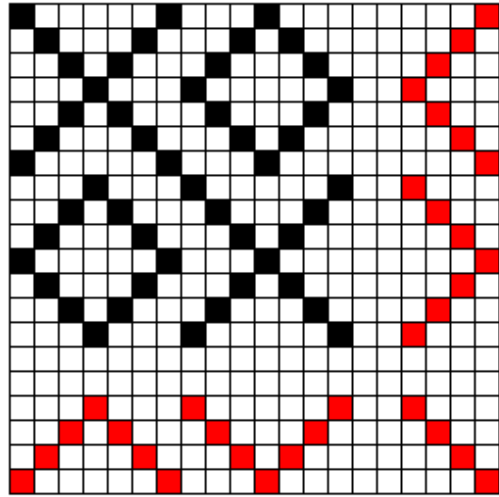
# Märgi rakendus!



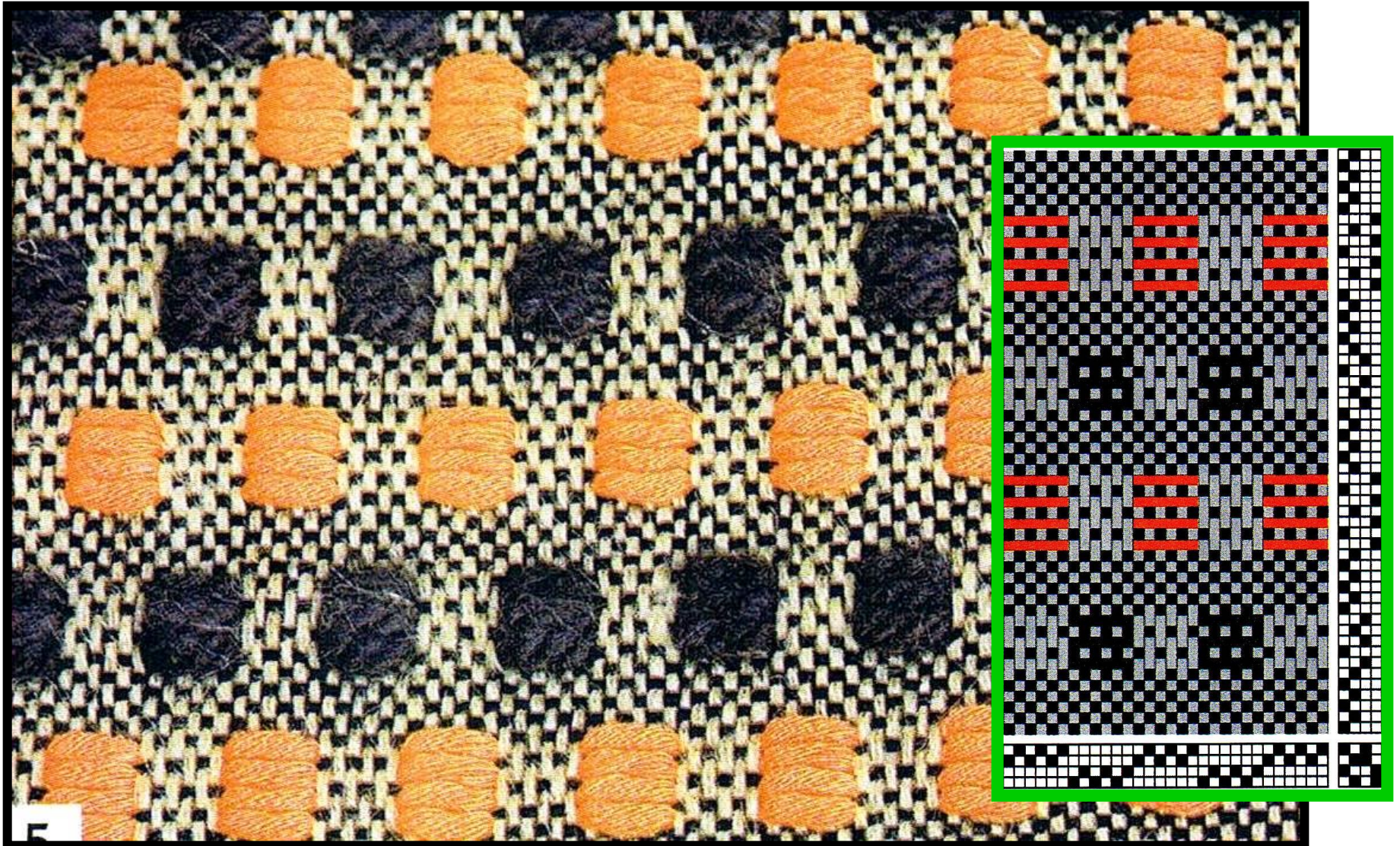
# Märgi rakendus!



# Märgi rakendus!

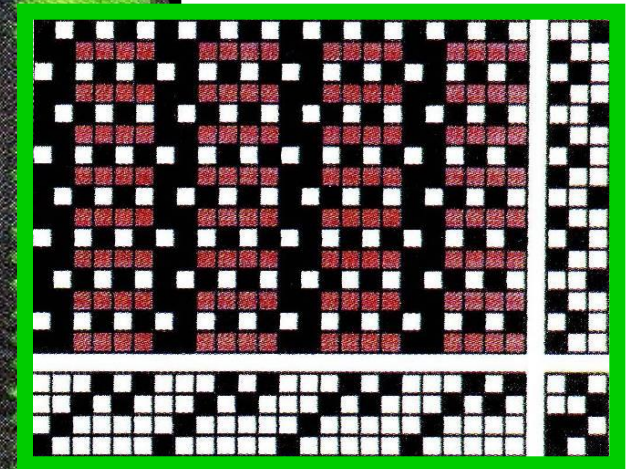
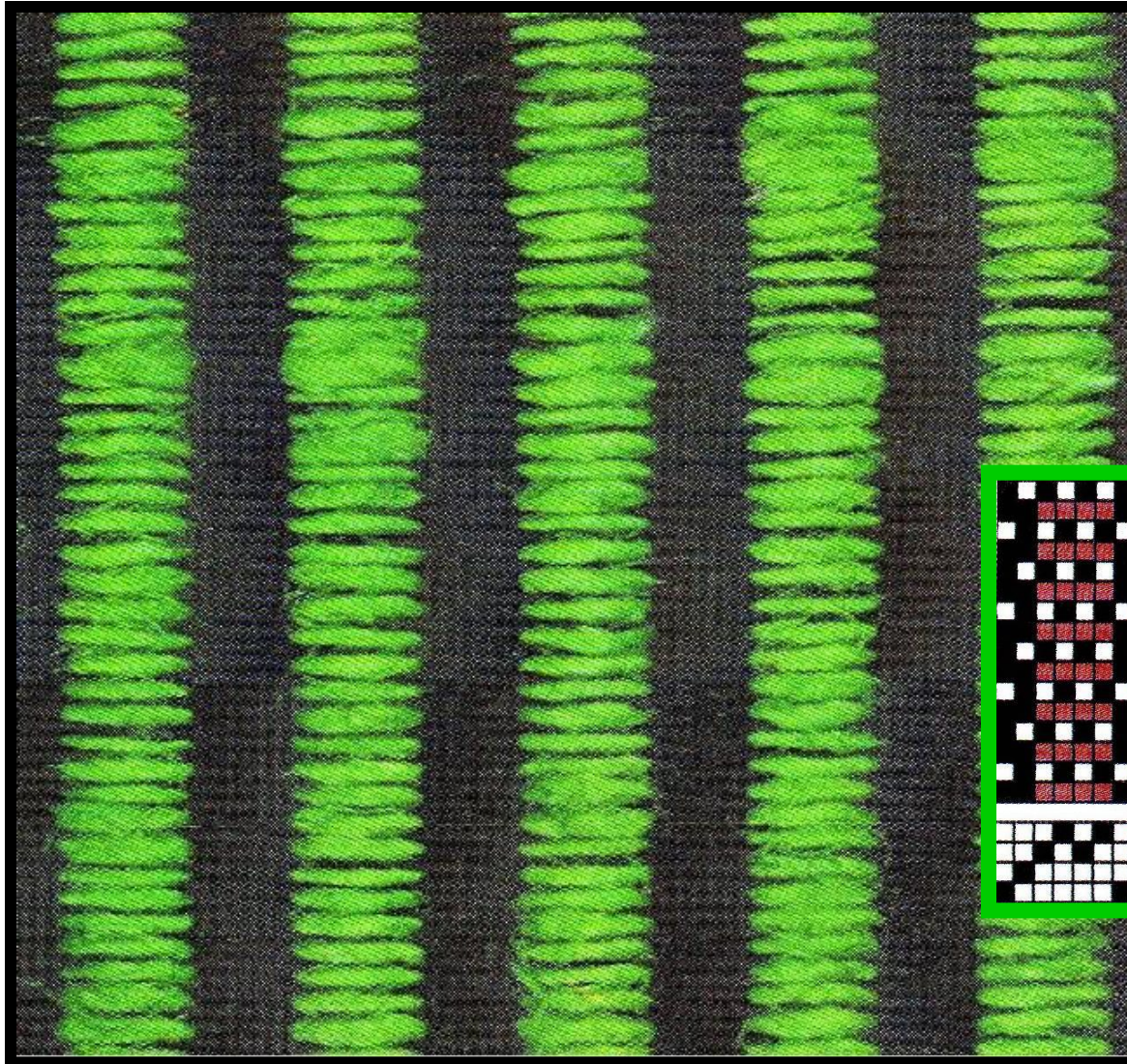


# A. KIRIKANGAD Raanu

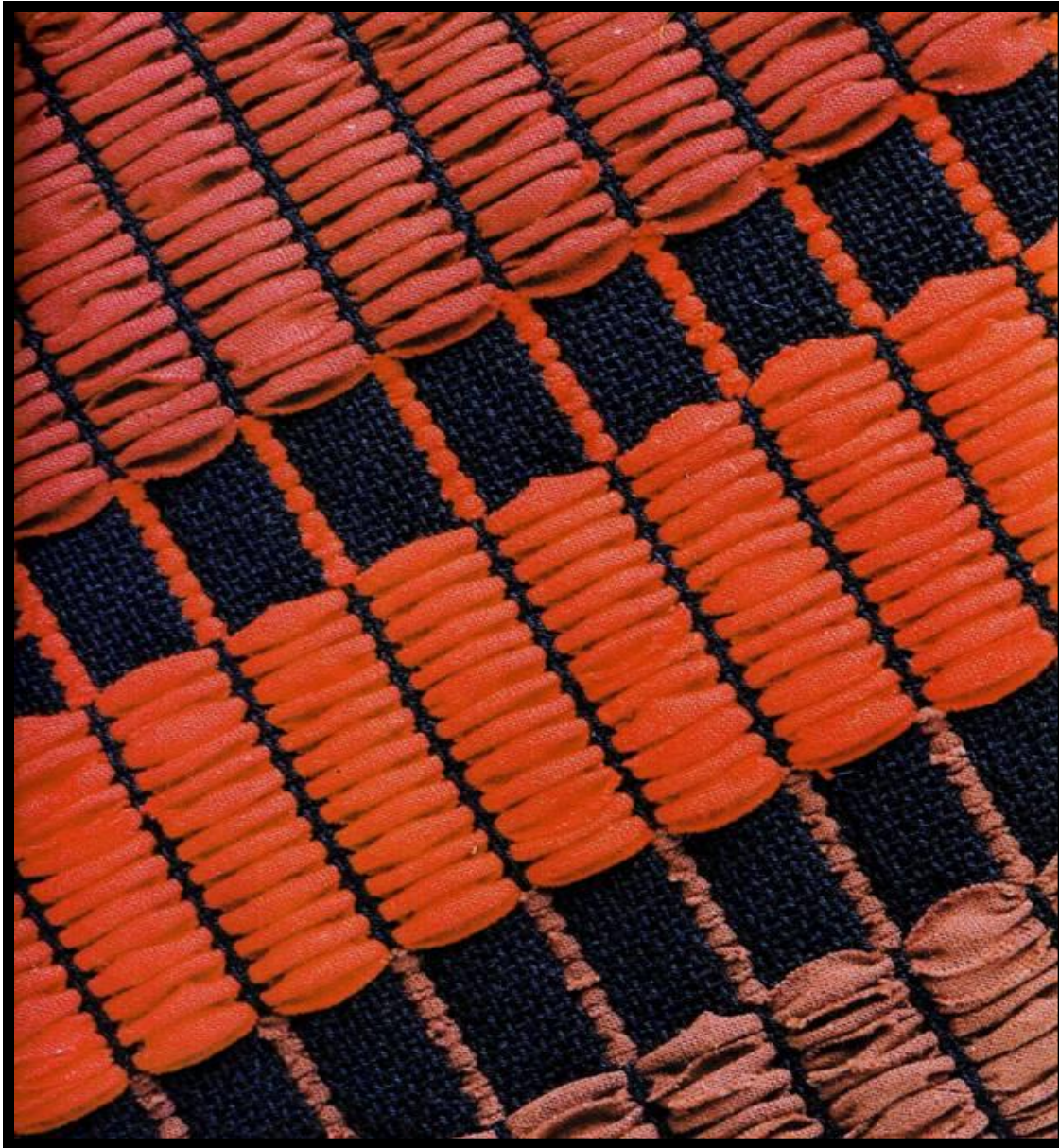


# A. KIRIKANGAD

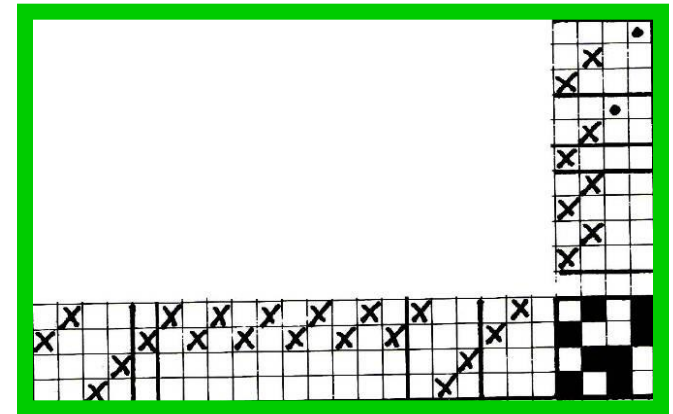
## Vaguraanu



# A. KIRIKANGAD

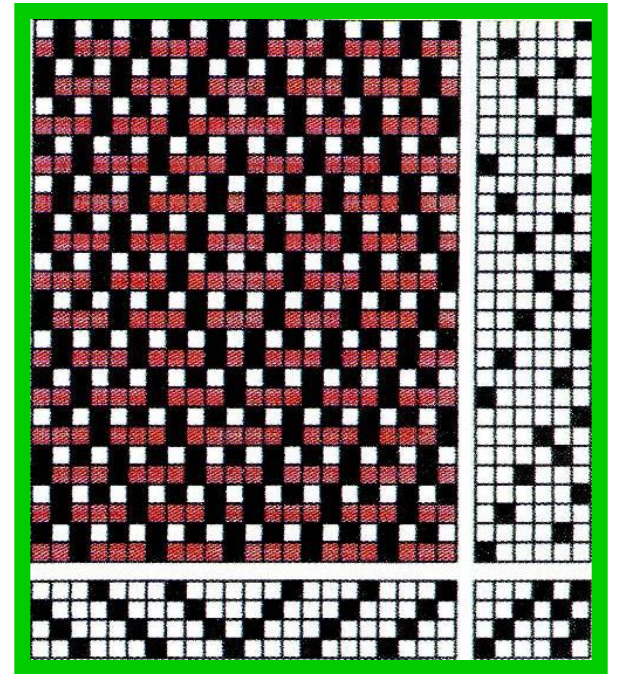
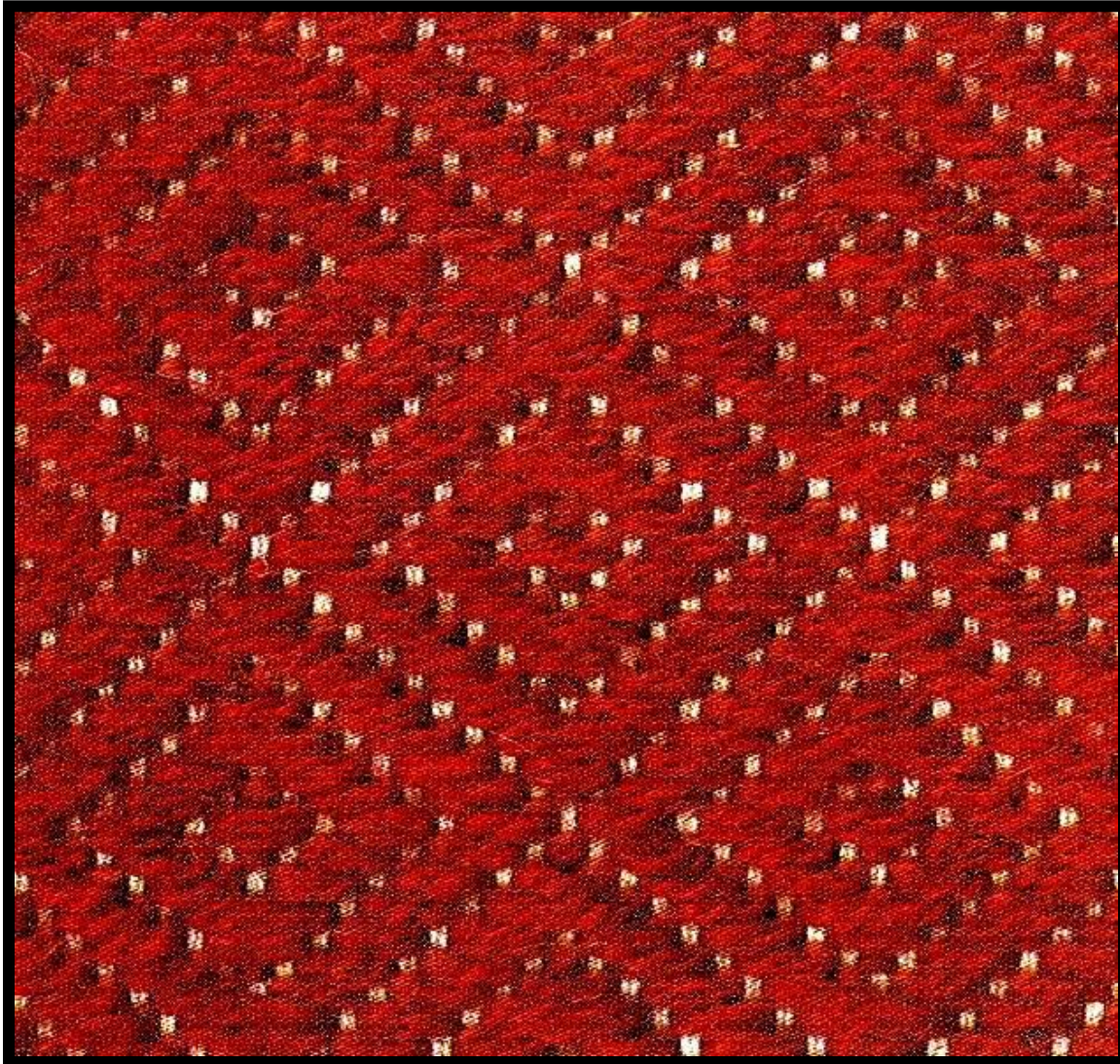


Vaguraanu



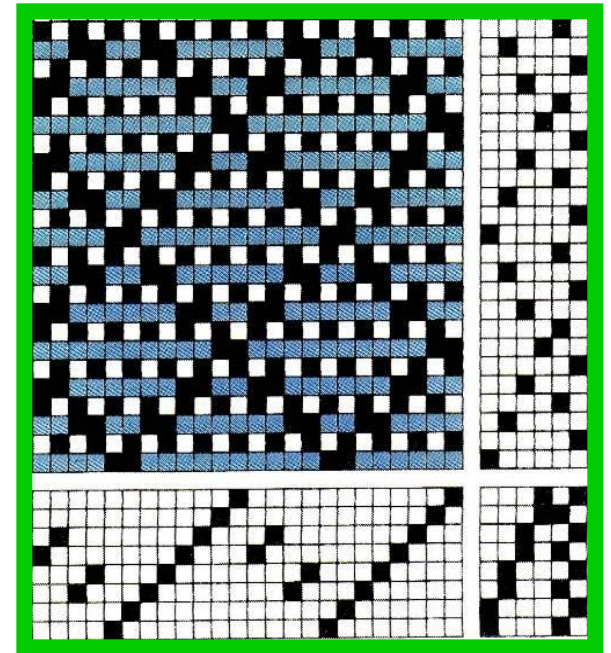
# A. KIRIKANGAD

## Rõngasraanu



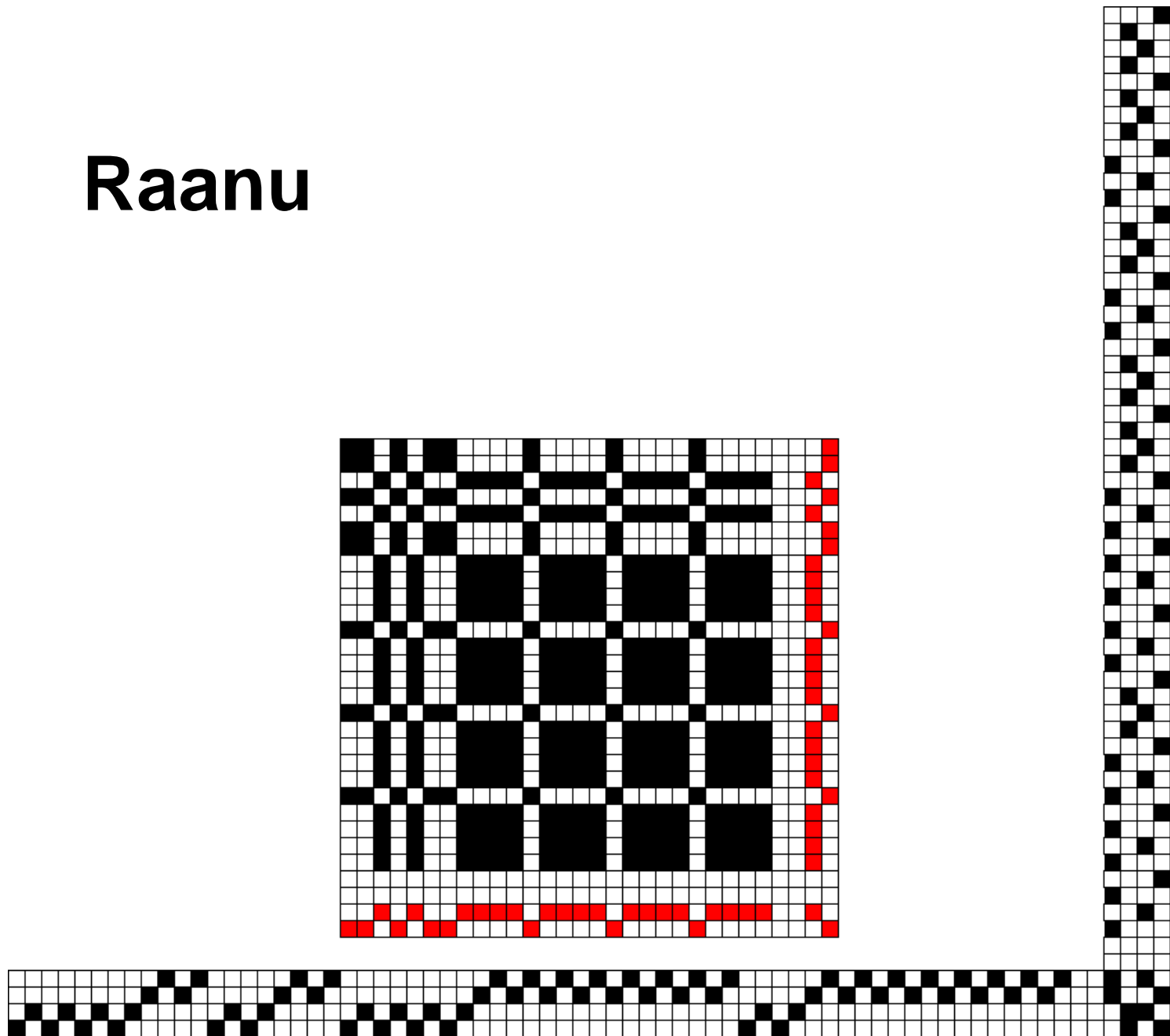
# A. KIRIKANGAD

## Silmaline raanu

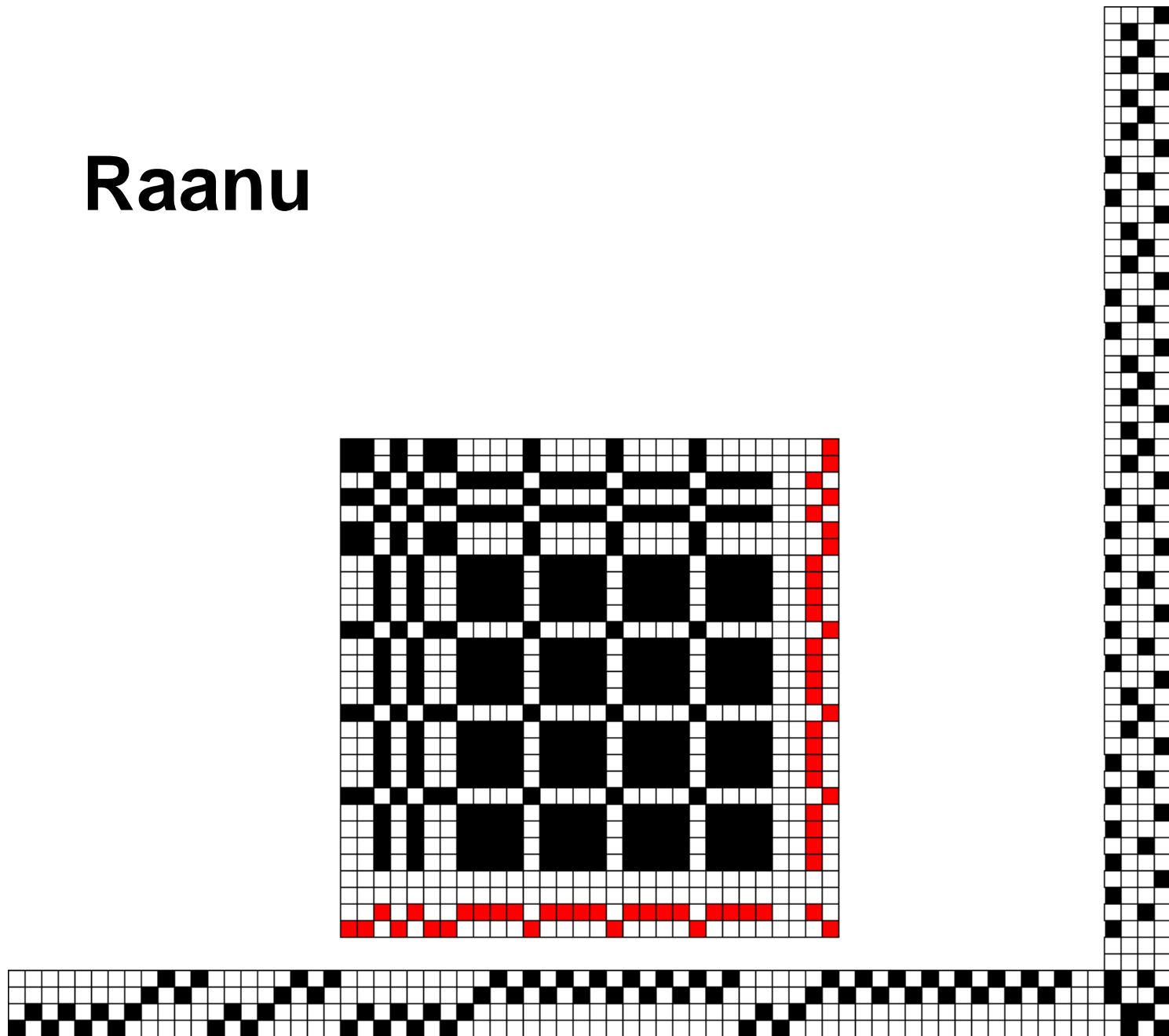




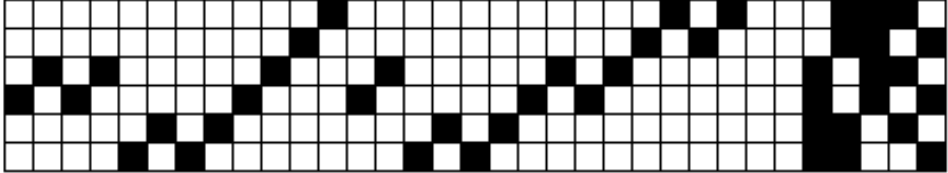
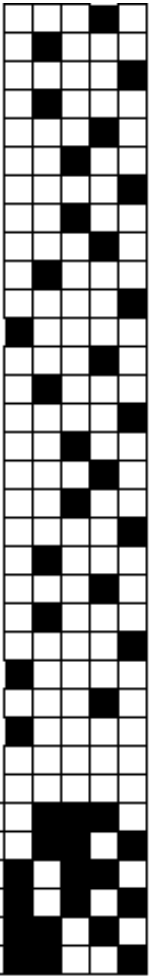
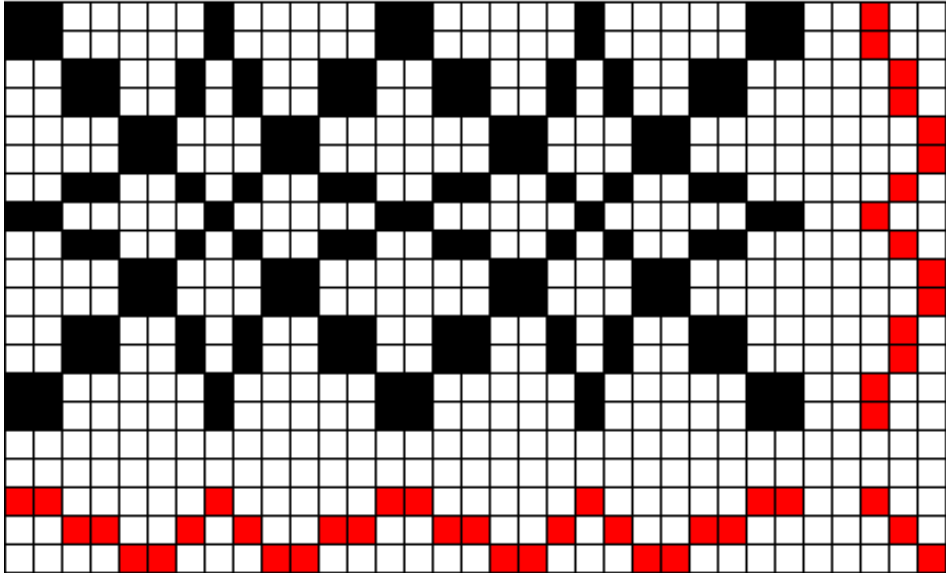
# Raanu



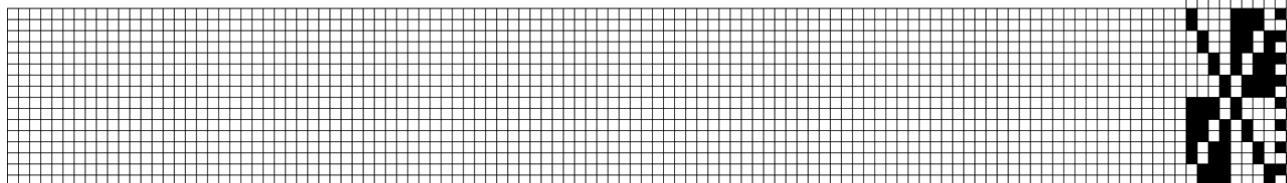
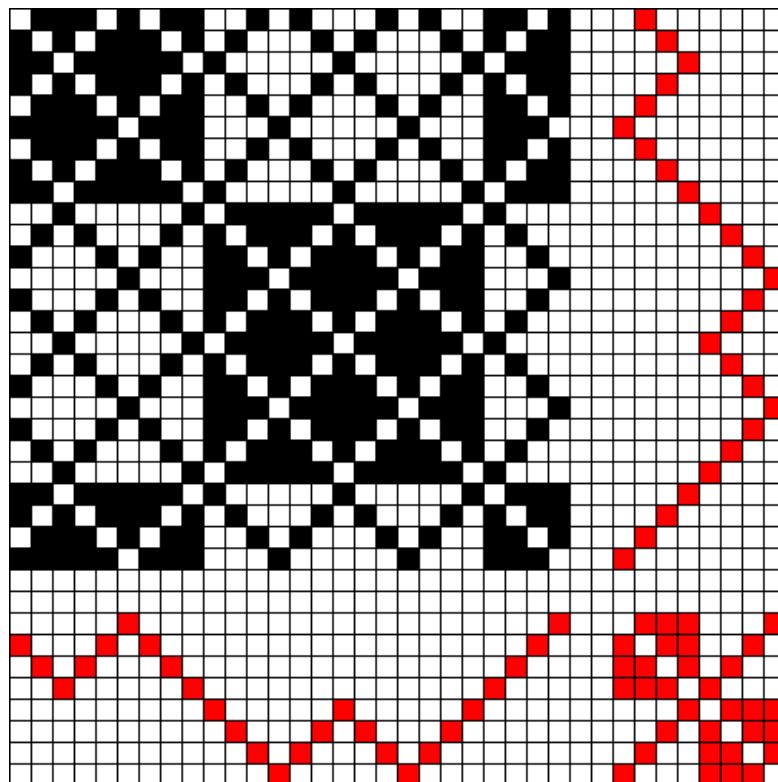
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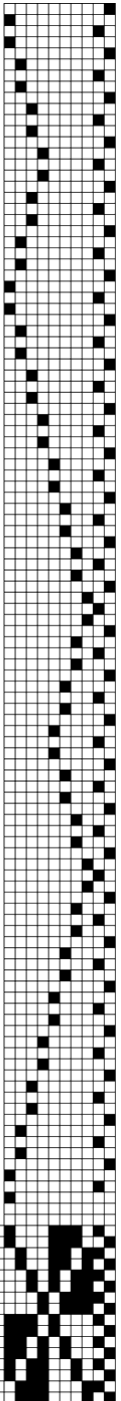
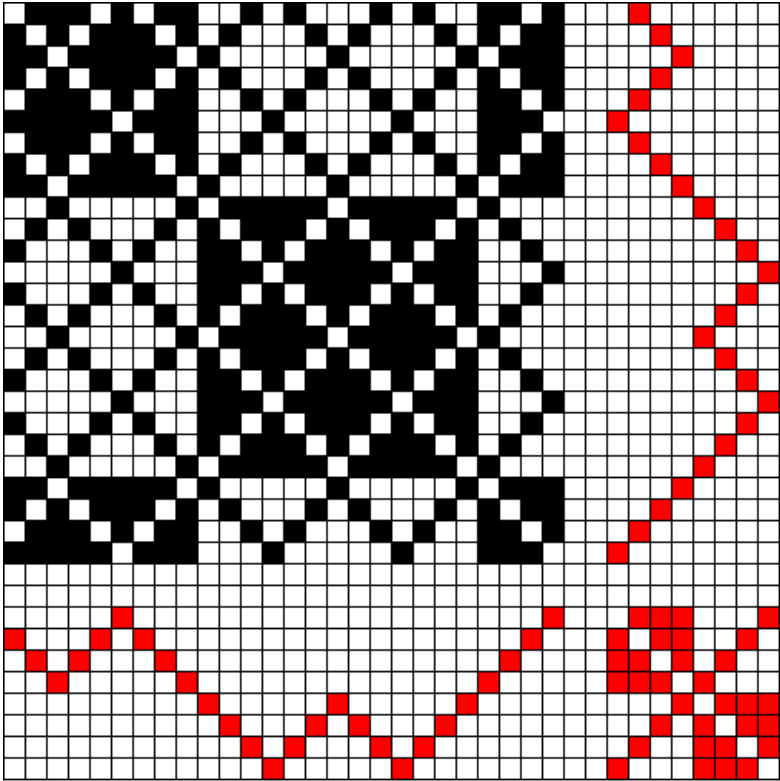
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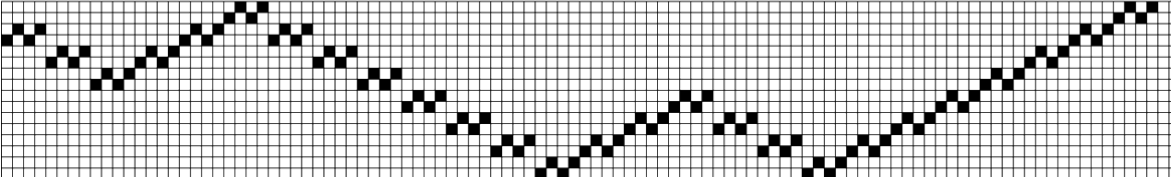
# Raanu



# Raanu



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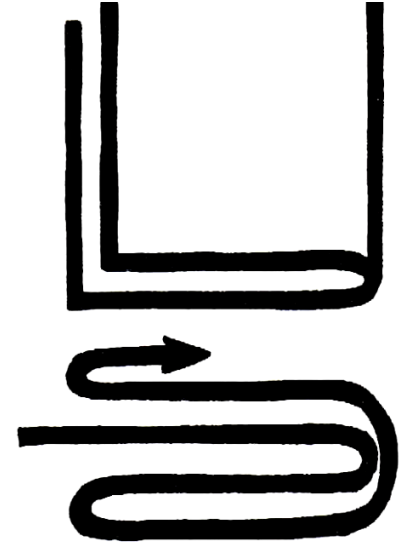
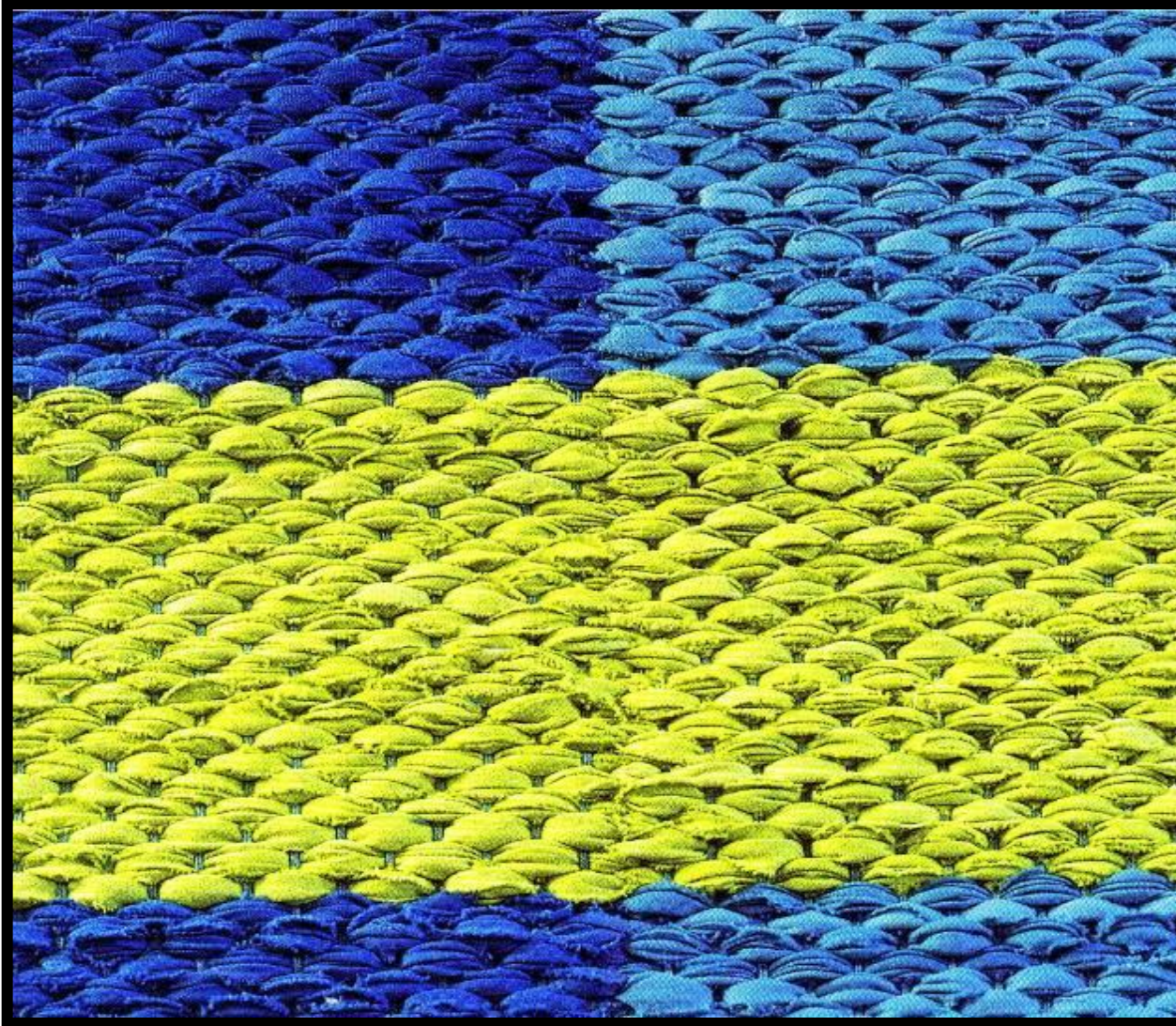
**KANGATEHNIKAD**

**II Lisalõngasüsteemidega  
kangad**

**D. TOPELTKANGAD**

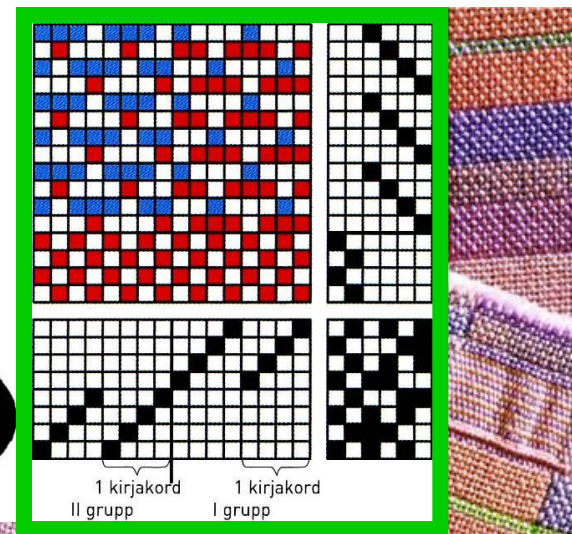
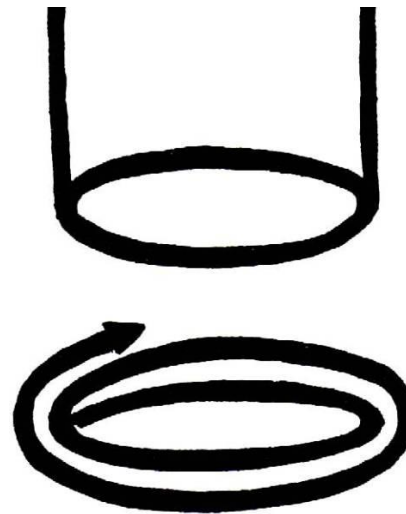
# D. TOPELTKANGAD

Topeltlai kangas



# D. TOPELTKANGAD

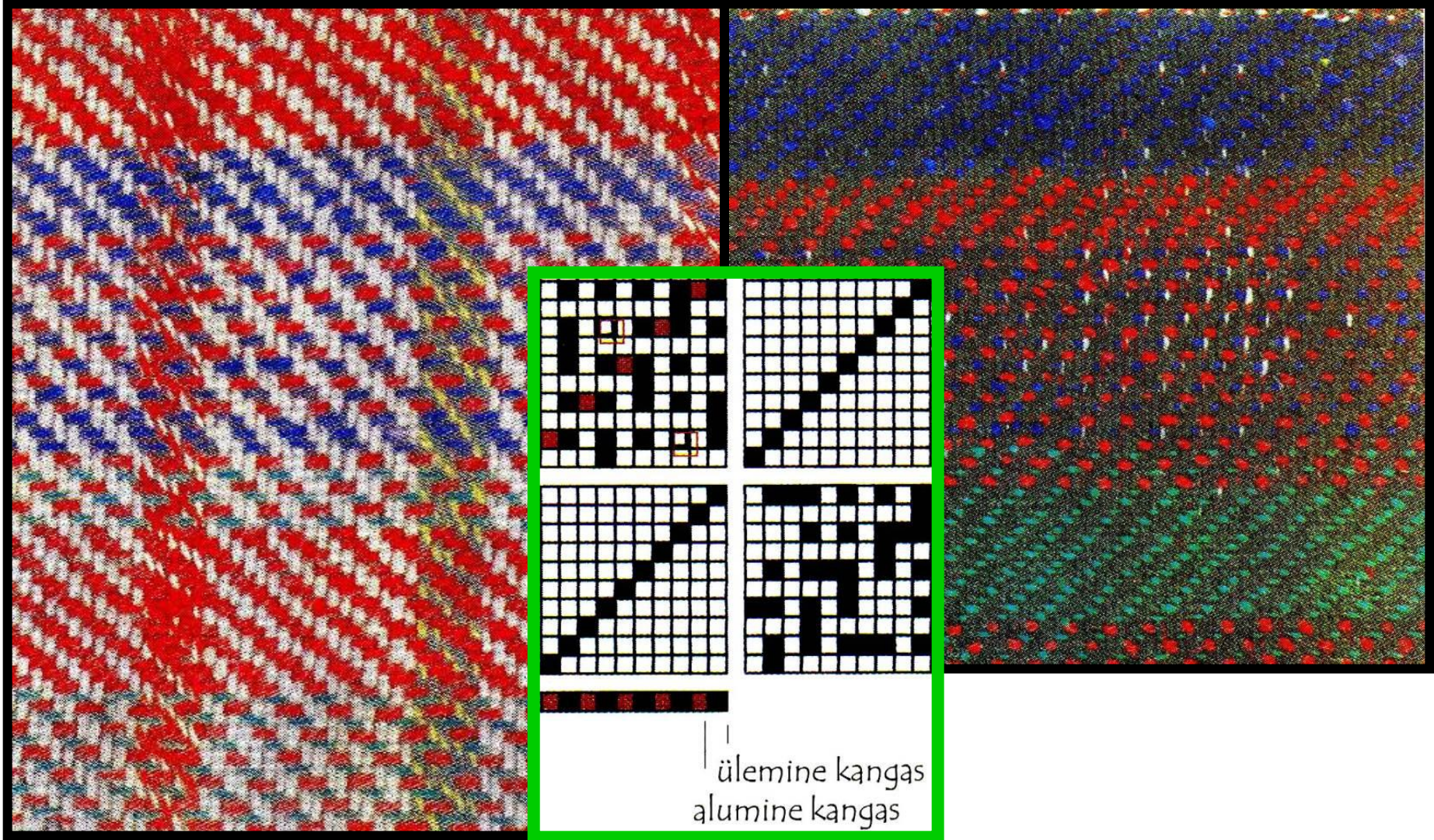
## Õõskangas e. kotikangas





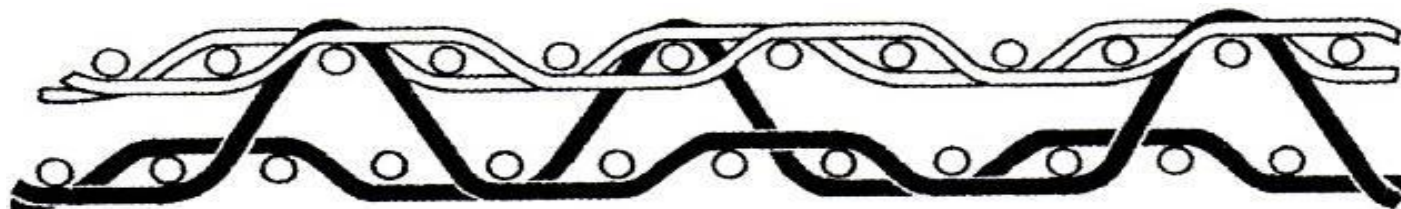
# D. TOPELTKANGAD

Voodriga kangas e. seotud topeltkangas

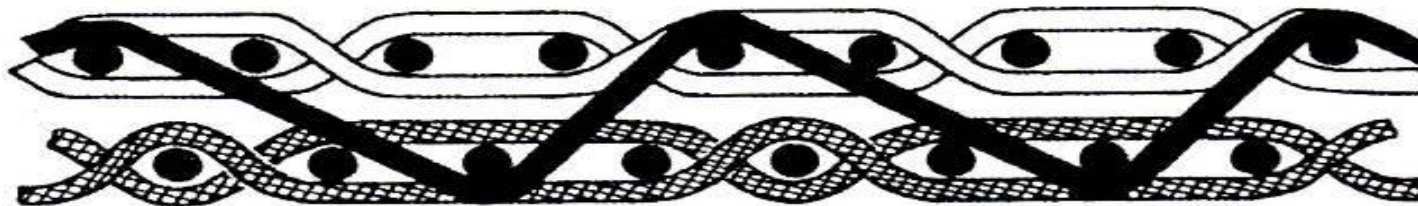


## D. TOPELTKANGAD

Voodriga kangas e. seotud topeltkangas



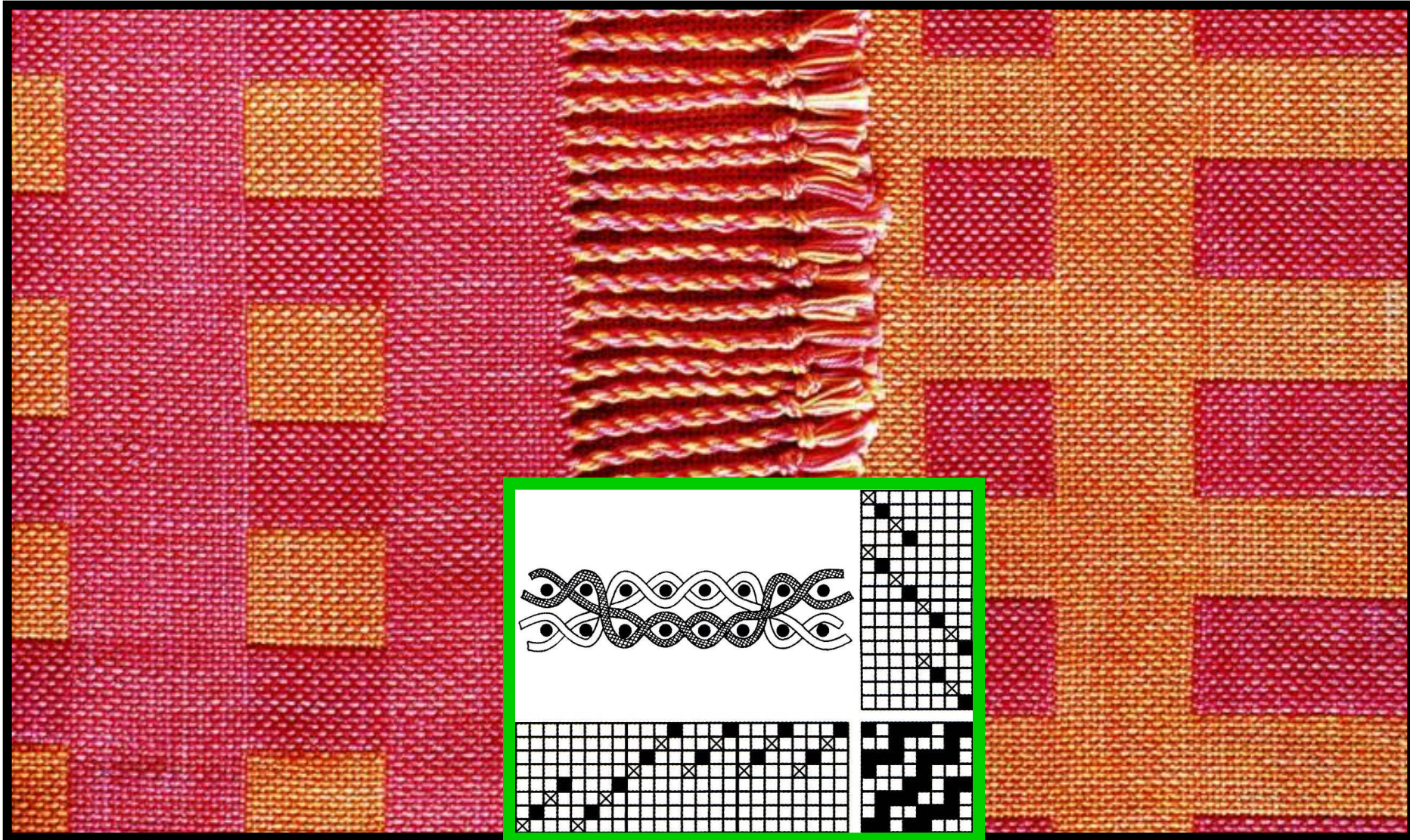
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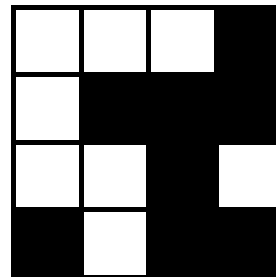
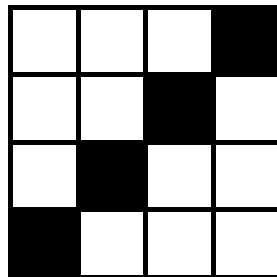
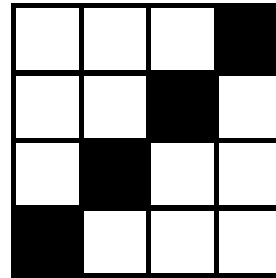
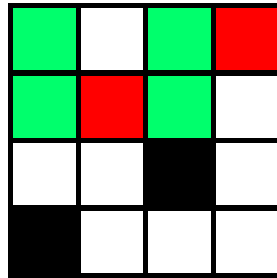
Ühe lisalõimega ühendatud kangad.

# D. TOPELTKANGAD

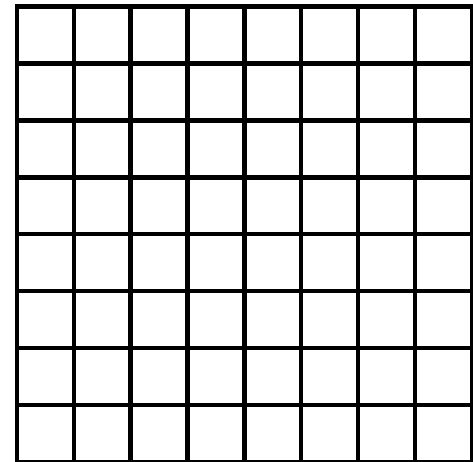
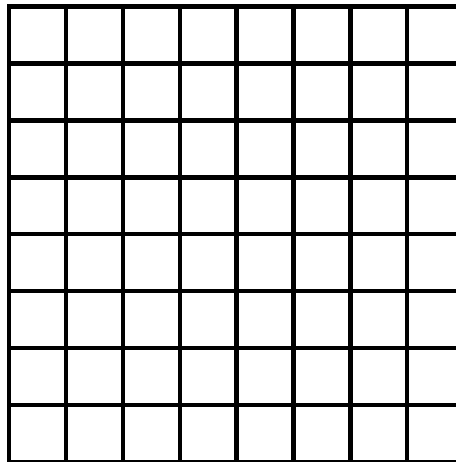
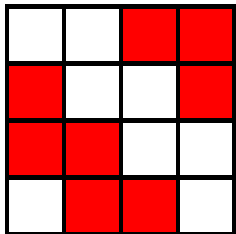
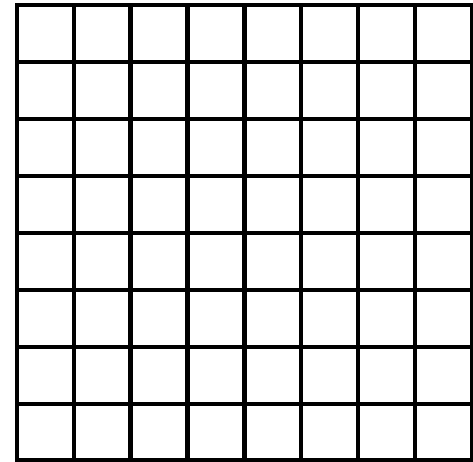
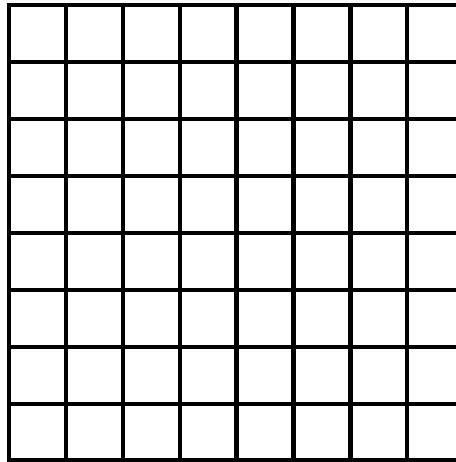
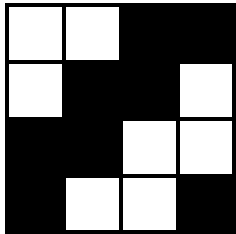
## Topeltdrell



# Topeltlai kangas



# Topeltlai kangas



# Topeltlai kangas

