

## Index :2

Polynom: 1001001

Serie size:9

prime factors: 3 3

no options because  $3 \leq 3$

## Index :3

Polynom: 1110101

Serie size:21

prime factors: 3 7

### option 1 :

block size :  $3 \times 7$

window:  $2 \times 3$

the series are :

100000110100110010010

110000101110101011011

001000111001111110110

there is no zero window of the given size

1 0 1 0 0 1 1

1 0 1 0 0 1 1

0 0 0 0 0 0 0

1 0 1 0 0 1 1

0 1 1 1 0 1 0

1 1 0 1 0 0 1

0 1 0 0 1 1 1

1 0 1 0 0 1 1

1 1 1 0 1 0 0

## Index :9

Polynom: 1010111

Series size:21

prime factors: 3 7

**option 1 :**

block size : 3\*7

window:2\*3

the series are:

100000101001001100101

010000111101101010111

001000110111111001110

there is no zero window of the given size

1 1 0 0 1 0 1

0 0 0 0 0 0 0

1 1 0 0 1 0 1

0 0 1 0 1 1 1

1 1 1 0 0 1 0

1 1 0 0 1 0 1

0 0 1 0 1 1 1

1 0 0 1 0 1 1

1 0 1 1 1 0 0

**Index :1**

Polynom: 1100001

Series size:63

prime factors: 3 3 7

**option 1 :**

block size : 9\*7

window:2\*3

the serie is : 100000111111010101100110111011010010011100010111100101000110000

there is no zero window of the given size

0 0 1 1 1 0 1

0 0 1 1 1 0 1

0 1 1 1 0 1 0

1 0 1 0 0 1 1

1 0 0 1 1 1 0

0 0 0 0 0 0 0

1 0 0 1 1 1 0

1 0 1 0 0 1 1

0 1 1 1 0 1 0

**Option 2 :**

block size : 9\*7

window:3\*2

the serie is : 100000111111010101100110111011010010011100010111100101000110000

there is zero window of size 3,2 in block Number 0 and his left-top corner is 4,4

the place of the corner in the original series is 4

there is the block:

1 0 1 1 1 0 0

1 0 1 1 1 0 0

0 1 0 1 1 1 0

1 1 0 0 1 0 1

0 1 1 1 \* \* 1

0 0 0 0 \* \* 0

0 1 1 1 \* \* 1

1 1 0 0 1 0 1

0 1 0 1 1 1 0

**Index :4**

Polynom: 1101101

Serie size:63

prime factors: 3 3 7

### option 1 :

block size :  $9 \times 7$

window:  $2 \times 3$

the serie is : 100000111000010010001101100101101011101111001100010101001111110

there is no zero window of the given size

1 1 0 1 0 0 1

0 0 0 0 0 0 0

1 1 0 1 0 0 1

1 1 1 0 1 0 0

1 0 1 0 0 1 1

0 0 1 1 1 0 1

0 0 1 1 1 0 1

1 0 1 0 0 1 1

1 1 1 0 1 0 0

### Option 2 :

block size :  $9 \times 7$

window:  $3 \times 2$

the serie is : 100000111000010010001101100101101011101111001100010101001111110

there is zero window of size 3,2 in block Number 0 and his left-top corner is 0,4

the place of the corner in the original series is 18

there is the block:

1 1 0 1 \* \* 1

0 0 0 0 \* \* 0

1 1 0 1 \* \* 1

1 1 1 0 1 0 0

1 0 1 0 0 1 1

0 0 1 1 1 0 1

0 0 1 1 1 0 1

1 0 1 0 0 1 1

1 1 1 0 1 0 0

**Index :5**

Polynom: 1000011

Serie size:63

prime factors: 3 3 7

### option 1 :

block size : 9\*7

window:2\*3

the serie is : 100000100001100010100111101000111001001011011101100110101011111

there is no zero window of the given size

1 0 0 1 1 1 0

0 0 0 0 0 0 0

1 0 0 1 1 1 0

1 0 1 0 0 1 1

0 1 1 1 0 1 0

0 0 1 1 1 0 1

0 0 1 1 1 0 1

0 1 1 1 0 1 0

1 0 1 0 0 1 1

### Option 2 :

block size : 9\*7

window:3\*2

the serie is : 100000100001100010100111101000111001001011011101100110101011111

there is zero window of size 3,2 in block Number 0 and his left-top corner is 0,1

the place of the corner in the original series is 36

there is the block:

1 \* \* 1 1 1 0

0 \* \* 0 0 0 0

1 \* \* 1 1 1 0

1 0 1 0 0 1 1

0 1 1 1 0 1 0

0 0 1 1 1 0 1

0 0 1 1 1 0 1

0 1 1 1 0 1 0

1 0 1 0 0 1 1

**Index :6**

Polynom: 1110011

Serie size:63

prime factors: 3 3 7

**option 1 :**

block size : 9\*7

window:2\*3

the serie is : 100000110111001100011101011111101101000100001011001010100100111

there is no zero window of the given size

1 0 1 0 0 1 1

1 0 0 1 1 1 0

0 1 0 0 1 1 1

1 1 1 0 1 0 0

0 0 0 0 0 0 0

1 1 1 0 1 0 0

0 1 0 0 1 1 1

1 0 0 1 1 1 0

1 0 1 0 0 1 1

**Option 2 :**

block size : 9\*7

window:3\*2

the serie is : 100000110111001100011101011111101101000100001011001010100100111

there is zero window of size 3,2 in block Number 0 and his left-top corner is 3,5

the place of the corner in the original series is 12

there is the block:

1 0 1 0 0 1 1

1 0 0 1 1 1 0

0 1 0 0 1 1 1

1 1 1 0 1 \* \*

0 0 0 0 0 \* \*

1 1 1 0 1 \* \*

0 1 0 0 1 1 1

1 0 0 1 1 1 0

1 0 1 0 0 1 1

### Index :7

Polynom: 1011011

Serie size:63

prime factors: 3 3 7

### option 1 :

block size : 9\*7

window:2\*3

the serie is : 100000101111110010101000110011110111010110100110110001001000011

there is no zero window of the given size

1 0 1 1 1 0 0

1 0 1 1 1 0 0

1 1 0 0 1 0 1

0 0 1 0 1 1 1

1 0 0 1 0 1 1

0 0 0 0 0 0 0

1 0 0 1 0 1 1

0 0 1 0 1 1 1

1 1 0 0 1 0 1

### Option 2 :

block size : 9\*7

window:3\*2

the serie is : 100000101111110010101000110011110111010110100110110001001000011

there is zero window of size 3,2 in block Number 0 and his left-top corner is 4,1

the place of the corner in the original series is 22

there is the block:

1 0 1 1 1 0 0

1 0 1 1 1 0 0

1 1 0 0 1 0 1

0 0 1 0 1 1 1

1 \* \* 1 0 1 1

0 \* \* 0 0 0 0

1 \* \* 1 0 1 1

0 0 1 0 1 1 1

1 1 0 0 1 0 1

### Index :8

Polynom: 1100111

Serie size:63

prime factors: 3 3 7

#### option 1 :

block size : 9\*7

window:2\*3

the serie is : 100000111100100101010011010000100010110111111010111000110011101

there is no zero window of the given size

1 1 1 0 0 1 0

0 0 1 0 1 1 1

0 0 0 0 0 0 0

0 0 1 0 1 1 1

1 1 1 0 0 1 0

0 1 1 1 0 0 1

1 1 0 0 1 0 1

1 1 0 0 1 0 1

0 1 1 1 0 0 1

#### Option 2 :

block size : 9\*7

window:3\*2

the serie is : 100000111100100101010011010000100010110111111010111000110011101

there is zero window of size 3,2 in block Number 0 and his left-top corner is 1,0



the place of the corner in the original series is 28

there is the block:

1 1 1 0 0 1 0

\* \* 1 0 1 1 1

\* \* 0 0 0 0 0

\* \* 1 0 1 1 1

1 1 1 0 0 1 0

0 1 1 1 0 0 1

1 1 0 0 1 0 1

1 1 0 0 1 0 1

0 1 1 1 0 0 1