D Pel KL

0111001

Lett circular shift.

1 '2 3 4 5 6 7

1 1 1 0 0 1 1 1

8 3 10 0 1 1 10

111 011 0

pu

First -4 bits are:

0101100

14 14 11 24 1 5

23 19 12 4 26 8

16 07 27 20 13:

41 52 31 37 97 55

30 40 51 45 33 4

44 49 39 56 34 33

46 42 50 36 29 32

0×53 3rd col 100 srBox DX TC Ath sions · [23 cy c+ e1] Transfer Jona 1 l'1a. be C7 gaJ 453 2 [ 42 04 46 3 (cz 5d 3a [81 4 qa cs 46 [18 00 d2 0019] dof 1502

After applying shift now:

 $\Rightarrow (02 * 23) \oplus$  02 = 000000010° = 2 23 = 001000011 = 35 + 2 + 1 23 = 001000011 = 35 + 2 + 1 23 = 0010000110

Scanned by SCANit App

```
(Q3 + 1A)
                        = - +1
   =1 03 = 0000001,1
                       = 24+23+2.
      1A = 00011010
                        25+2+2+2
               43210
                       OI Starton
         (241) (x44 x3+2)
                       011000015
         かちゃメチャント ナスタースタイス
(01 $ 42)
                   2 @ 1
   01 = 00000001
                    = 26 +x
   ce> = 01000010
                     =) ab ex de
                   01000010
(01 + (2)
  10000000 210
                = 27 + 26 + 2
       76 3932 10
                    = 47+26 + x QUA
              01000010
      0010001-10
      000101110
      001000010
       011000010
       011101000
     as ce 47 84
      10 09 49 018
        a5 fc 46
```

02 # 56

03 A ag

$$(241)(x^{7}+x^{5}+x^{3})$$

some we got 28 en equation we need to use

greducible polynomial theorem i.e x8 = x4 + x3 + x +1

(O1) # (10)

$$\frac{2}{1000}$$

(1000000) = 1/1 + 1/2 + 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 = 1/2 =

and now Ith col

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