Notes

February 5, 2014

gray code algorithm in book

if the sum of digits is even, not the last digit. otherwise find the first one from the right and not the digit to it's left.

work

11,12,13,15,18,19,20,21,23

11

a

00011100

b

01010101

b

00000010

12

a

$\{x_3, x_4, x_6, x_7\}$

b

$\{x_1, x_3, x_5, x_7\}$

c

$\{x_4, x_5, x_6, x_7\}$

13

00001 00010 00011 00100 00101 00110 01000 01001 01010 01011 01100 01101 01110 01111 10001 10010 10011 10100 10101 10110 11000 11001 11010 11011 11100 11101 11110 11111

15

a

00010011→00010100

b

10101000→10101001

c

10111111→11000000

d

00000001→00000010

18

19

000
110
001
010
011
100
101
111

20

000
001
101
100
110
111
011
010

21

a

00000
00001
00011
00010
00110
00111
00101
00100
01100
01101
01111
01110
01010
01011
01001
01000
11000
11001
11011
11010
11110
10101
10100
11100
11101
11111
10111
10110
10010
10011
10001
10000

b

00000
00001
00011

```
00010
00110
00111
00101
00100
01100
01101
01111
01110
01010
01011
01001
01000
11000
11001
11011
11010
11110
11111
11101
11100
10100
10101
10111
10110
10010
10011
10001
10000
```

23

a

010100110→010100111

b

110001100→110001101

c

111111111→111111101