8530 in binary.

=> 100001010010

6) 10101010101010110

(,3,5) 111111110101001011

(8,10,12) | 1 1 1 1 1 1 1 1 1 1 1 0 1 0 11

Minimum number of moves = 3.

sequence -> Root (0).

Right (1).

left (0).

Right (1).

Right (1).

Right (1).

tlas 4 is -) even number.

b) Binary tree.

1 - move to right.

0 - move to left.

given, 10 111

root. Root (R)

right R

L lef t

2 right + 3

R

2

1 001 -> 9 1111 - 15

> 1100 - 12 1101-13

1110 - 14 1011 -11

1010 - 10

0110 - 6

0111 - 7 0100-4

0101 - 5 0010-2

0011 - 3 0001-1

First divide into two parts and weight using the digital balance and keepon doing it till left with the heaviest weight.

10) rcm = (rcmx2 + current bit) mod 7.

First ycm =0.

for first bit

rem = (x2+1) mod 7 = 1

and rem = (1x2+1) mod 7 = 3

3rd rem = (3x2+0) mod 7 = 6.

4" rem = (6x2+1) mod 7 = 13 mod 7 = 6.

 $5^{n}$  rem = (6x2+0) mod 7 = 12 mod 7 = 5

 $G^{th}$  rem =  $(5 \times 2 + 1)$  mod 7 = 11 mod 7 = 4.

final rem = 1

is not divisible by 1.

T) Given = 10110/11101 is not palindrome because when we flip it, it won't be equal to the given original number.

interchange their values and will not be equal.

Ex of palindrome -> 1011001101 (and) 101111101.

a) Highest xor values for -) 0000000 [111] []

which without having more than 3 consecutives is

O11011, 100110.

to the state of th

+ = 1-60m Part Front Production of the second

1 1 tom 2 1 1 1 m Com

on and the second second