d

X^n	Number	Count	Remainder	Running total	Binary	Run Total
2^5	32	1	0	32	0010 0000	0010 0000
2^4	16	0	0	32	0010 0000	0010 0000
2^3	8	0	0	32	0010 0000	0010 0000
2^2	4	0	0	32	0010 0000	0010 0000
2^1	2	0	0	32	0010 0000	0010 0000
2^0	1	0	0	32	0010 0000	0010 0000

$32_{10} = 0010\ 0000_2$

X^n	Number	Count	Rem	RunTot	Binary	Run total
2^4	14	1	0	16	0001 0000	0001 0000
2^3	8	0	0	16	0001 0000	0001 0000
2^2	4	0	0	16	0001 0000	0001 0000
2^1	2	0	0	16	0001 0000	0001 0000
2^0	1	0	0	16	0001 0000	0001 0000

$16_{10} = 0001\ 0000_2$

$$\begin{array}{r} 0010\ 0000 \\ -\ 0001\ 0000 \\ \hline \end{array} \rightarrow \begin{array}{r} 1110\ 1111 \\ +\ \ \ 1111 \\ \hline 1111\ 0000 \end{array} \qquad \begin{array}{r} 0010\ 0000 \\ 11,11\ 0000 \\ \hline 1,0001\ 0000_2 \end{array}$$

e

C_{16}	0_{16}	4_{16}	8_{16}	0_{16}	0_{16}	0_{16}	0_{16}
↓	↓	↓	↓	↓	↓	↓	↓
1100	0000_2	0100	1000_2	0000_2	0000_2	0000_2	0000_2

1100 0000 0100 1000 0000 0000 0000 0000

Space = 20_{16}

A = 41_{16}

B = 42_{16}

C = 43_{16}

D = 44_{16}

E = 45_{16}

F = 46_{16}

G = 47_{16}

H = 48_{16}

I = 49_{16}

J = 4A

K = 4B

L = 4C

M = 4D

N = 4E

O = 4F

P = 50

Q = 51

R = 52

S = 53

T = 54

U = 55

V = 56

W = 57

X = 58

Y = 59

Z = 5A

a = 61

b = 62

c = 63

d = 64

e = 65

f = 66

g = 67

h = 68

i = 69

j = 6A

k = 6B

l = 6C

m = 6E

n = 6F

o = 70

p = 71

q = 72

r = 73

s = 74

t

u

v

w

x

y

z

48 = H

61 = a

6E = n

20 = space

53 = S

6F = o

6C = l

6F = o

Hans Solo