	CH eggs
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	It is used to encode juteger value. It is used for locales juteger value.
-	It is used to encode the line
-	It is used for lossless compression
-	Defermining adumb code or codeword
	Assumption o
	larger the integer lesser the probability to occure
	Algorithm.
	integer
	step: 1: unary code of q= [n/m] -m=divisor
	devieges
	A CTION DATE TO DATE TO THE PARTY OF THE PAR
	step 2: let k= log, m
	c= 2k= m and r=n mod m
	y'= (& touncated to k-1 bits, 0 < rec
	of a following to the following
	8+C founcated to K bits, otherwise
	- contented as advance talent code
-	step 3: concelerate result of set step 1 & step 2
	1 Concefenate (9,81)
	* Example: Golomb code
	o: Design Golomb (ode for 9 with divisor 4 n=9, m=4, Gy(9)=9 onay code
	n=9, m=4, h4(3)=7
	$q = \lfloor 9/4 \rfloor = 2$
	9= [-74] - 4= 11110
	Unary code of 9 = 110 -1 5=111160
	n of is followed by (
	nof 0's fellowed by 1

.

1

$$K = \log_2 4 = 2$$

$$C = 2^k - m \qquad \delta = n \mod m$$

$$= 2^3 - 4 \qquad = 9 \mod 4$$

$$= 0 \qquad = 1$$

$$3^1 = 1 + C = 0 \text{ Tourcated to } 1 + C = 0 \text{ Tourcated to } 2$$

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Entopy: It shows the shortest possible average length of a lossless compression of pata

Probabily = no of occurrence

6: Find Entropy:

P(a,) = 1/2, P(a2)= 1/4, P(a3) = P(a4) = 1/8

Entropy = 1 for (1/2) occurrently

-1 (1/2) (log 1/2)

-1 (/y) (log = /a)

forgs -2 (1/8) (log 1/8)

= (-1/2)(-1) - 1 (-2)

= (-1/2) (-1) - (/4)(-2) - (/4) (-3)

 $\frac{-1+1+3}{2} = 1.75$ bite/symbols

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	Cont.
200	an analysis of the contract of the second of the second
*	Find entropy if the given sequence is
	1.212333312333312
	The transport of the state of t
	Unique characters = 1,2,3
	words That I do
	P(1) = 5/20 = 1/4 P(2) = 5/20 = 1/4
	6(0) = 1/2 1/2) = 1/4 1/4 = 1/
	P(3) = 10/= 1/2
	120 12
	The state of the s
	$= n + \log y = -2 \left(\frac{1}{4} \right) \log \frac{1}{2} - (1) \frac{1}{2} \log \frac{1}{2}$
4	
	A LE LIVI (III A
	= -1 1+0.5 = 1.5 bits/symbols A 6.221
	The state of the s

0.220