Date:  www.mlrajmulticalour.com
let H'(n) be the M-D Hauh Ann Fron. Tobe provably searce, $H^{s}(n) = H^{s}(n')$ sit. $n \neq n'$ should be
seare, HS(N)=HS(N') sit. N x n' should be
improbablo
1 De 1 Q I' Forth
let L& L' serve lengths of x d n'
the LFL',
the last step toursforms for both ad u' will be
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
ZB+1 = 1 (28/1L)
2'8 H 2 M? (2'B   L')
Smce H(n) 2H(n')
43 (2811L) e h (2811L')
Smce l'fl; we know that 2011 & 2311L
are dilberent strings the probability that
are dilberent strings, the probability that he collected is neglible (DLP hash theorem)
Re
Il Loll, non 2 n'BH
we have $n \neq n' \leq  n  \geq  n' $
Some must have an' such the
nifer!

Let it & BH be the greatest snuly 2 1 -111 m; + 2 /m-1 11 m; fr: i R ix 2 B+P HS(2) 2 HS(21) 2) hS(2BIIMBH) 2/3 (3) 2/3 (2BH) >) 2B (1 7BH = & Z'B || 21 BH are In different storings for which 4 cold improbable be carred DLP. has it it & BH +, it zhe max mlex such that 21x-1 /0; + 7 2i+-1/2i 4' Zi x = 2ix 2 h (2; -1/nit) 2 h (2; -1/nit) orgain these stings are different but the collider. I improbable

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