Nuclour 3. Methrey (a)  $a = c \cdot a$   $c, a, b \in \mathbb{Z}$   $a, b \in \mathbb{Z}$   $a, b \in \mathbb{Z}$   $a, b \in \mathbb{Z}$ Jp ( a = )p ( c.a) ( Up(=) = a26 Jp(a) + Up/8) JP ( ca ) = V(co) - Up (cb) sopanere que auc EZ, uso Up 10 4= Jp(0)+Up(c). the 270 orebugges, ryers a=pk? a (a) p) = 1 (c) p) = 1 Up(ac)= Up (pkithz ac)= kithz Jelal + Jela) + (ph'a) + (ph. c) = k .. k. Up ( ca) = Up(ca) - Up(cb) = Up(c) · Up(a)-Jetel- Jp(8) = Jp(a) - Jp(8) - 47) 1. ('p(xy)= Up(x) + Up (y) X= & y= 5 930,0 € Z

Up (ac) = Up (ac) - Up (bd) = Up (a) = Up (c) -Up (6) - Up (d)= Up (a) - Up (b) + Up (c) - Up (d)= = Up( a) + Up ( = )= Up (x)+ Up (y) - 4TA, 2 Up(x+y) = x= 2 y= = a, b, c, d e # Nova e en, 470 gus pug & ZL Uplp+9/3 misto 4p/4p(9) Vpl u, 9 | = min 1 /plus, /plg)) U=p"10' 9=p 12' 5.0.c. kazka Upi u+q) = Up(ph1 u+ ph q') = Up(ph (philis -9") = Up(p"2) + Up(p = - = = mint Vp (14), Vp (2) ( ) Ip (a o + cb) - Up (b) - Up (a) = min (Up (a) + Up (d), Up (B)+Vp(c))-Vp(B)-Jr(d)=mir(Up(a)-Up(B), Up(C)-Upin = mh/Vp(x), Vp(y))-Vr(D).

3. Доражен, что 2 неринровання paga til skhubailtettet ilengs coloù Ž aipi u Ž dipi Deround Spegnous ma, 400 transmis tance N. Cojemen n>N  $\sum_{i=b}^{b} a_i p^i - \sum_{j=m}^{b} b_j p^j = gut ygadala$   $\sum_{i=b}^{b} (a_i - b_j) p^i \qquad bountettur
gono unun
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tu$ agua agua uz glyn 5 (a; . 8;) [=0 um neploe tu nomer lunativerous gur bien N > N , begg ord for oznanais , 400 pieger noly with Torga [ [a - B;] p' p" [a;-Bil<p,in a. 2 p u 6,2 p To ga no cyn boen pag aburer ca runson p-unjon culterne undulue pur la bogus uns corp gappawu) po so gilleron 1, to pa gilleron 1, to runson centene un uno guille n 2 p a zunton centene un un uno gilleron n 2 p a zunton can can con par su pabris reguro 10 ru genistre par P. Upotubereme

of dygen penals a mosp x 9 = a · 2 = 1 (noch) Byour bouranatimbatt x reducen Oughierro, 470 g & Abrillette Kl. Eureron 1004 frede tred x Dua 31000 moderne logbegen at a bour johne 1 je unare & present Tereps law tom typico modernes abuses m Carpon Sut, Due 2000 edu X yerro han gotto tolero noculo Tres ha at - shagporturion bourt un (q =) +2 (g x) P = (g x) P = 1 we (g x y) P = 1 Eur he onspaine 400 Hb. Boret, 16 seguino Il tengra anavorante qua been rouce gyrogen (and Unew, 410 pa Rangaw

use guraen en en buga P=3/2N (gx+k) = (gx gk) word use Moduema Nochesari III bojblegenne 6 Pin, no pac chalder, 40 p= 2 +1, legs versional crevery glown glown to be Julos elle mans pour les land

Me Costo guir 29 (log(n))

7.2 Buton Ologian)