(R, +, .) ist Ring => 0.a=a.0=0 VaeR Insposmoler ist O nill wiredinbar (by..), auch wilt in Korpa. Ferma B (M.o) Monoid a, birretienbar = > (006) wiretiebar, Jursseist boa.

(Z, On, On) ist Korpa (=> n ist Primzull 19000m 4.26

=> (ags) whatersal ase as = n = 0 => 0,2x, 01,5 > 2 (0 # 1, ba 41) mit 00,5= h Amin: (24, On On) ist Korpan =) a,5 in min theusar "=>" Zh, 2 Zeno Primzull , 274

Johnma C: (Mie) Morand, O zonmulativ a,5 nilt wiretiebu => (00.5) nild wiretiebar

Jehra B

06, Hall & mpre (Cracter -) 1101 15 100 10 て 10 101 -(~) (0 (\sim) 100 10 10 15 10 110 (~ 9 well aby More Z 6 66 St S 1 2 gas beging Pay 20,7,53 (46) Abe

5

4.33 Erigedis as Argenteun

ggy - Bot deiz zwille zur gane Zallen

Kumple per pi ~ RSB

Depridia 4.27

i) Soier dix FR

Win sagen of tolet x (Notohim; d(x)

giolst generature Tole (Novolin: cl=ggV(x,y)) ii) Fixx, YEZ helpd of EIN dow

(d(x and d(x) and d(x)

(x, a) mit (d(x and d(x)

(bd | mit (d' | x and d' | 4) => d' [d) gret

99 T (S, Y) = gs T (80, 20) = 10 5.2.2 7= 20 X= 50 2.8.5

X, Y & D tolo Rand : (<) ggr (x, Y)=1 (to la perol) Deprision 6.28

Eustedind Algorithms a) Losupplan for gs T.

X2 = SO mod 20 = 10 X3 = 20 red 16 = 0 Division mit Xin (20,1/2, --, 1x,1-13) Slip xin = xz=10 994 (50,20)=10 x0= 50 x=20 (XOCX) per dansele des Zublen (dann XOVX) IX pow YIX II: YIX Eusted (xo, x, 6 2 $\langle (x_i \neq 0) \rangle$ Ysando cude Easlid 112 141 : J71HM



X = -50 X = 20

Xo X X

X = 30 X = -50

20 = 6.-50 + 20 -50 = -3.20 + 10 20 = -3.20 + 0

= de (-50,20) x4=0 0=x3=10 $x'_{0} = q_{1} x_{1}' + x'_{2}$ $x'_{1} = q_{2} x_{2}' + x'_{3}$ $x'_{3} = q_{3} \cdot x'_{3} + x'_{4}$ $x'_{3} = q_{3} \cdot x'_{3} + x'_{4}$

Q.x + 5. Y = 1 = 99 T (a,5) Sex. X, Y & 2 mit 0,562 tolopud Weters Exbus! Forma 4.24

ワー人・タナメ・カ Som a,562 word d=gg (a,6) =) Sex. X,Yt/2 mit Vac general femmy 4.30

Benes: (Son& In RIV Dus Eur. AP)

Duishellur des ggris of and (8) X:-2, X:-3 (*) X:12 X:-1 Canada: 1. 0 = -9:-1 xi-3 + (1+9:-1 9:-2) xi-2 5-1× 5-16 -5-1X 11 5-1X Xi-1 1 X, 3 - 9; -2 X; -2 = > bi-2 d= x;= x,-2 -q;-1 xi-1 X2 - X0 - 01 X X31X11CX SIEH a, S mhm Ne, X, = 191-3 D.S. Ball 1.88.K Times Sont

d= Q1-4×1-4+ 51-3×1-3

Brichet ans grigging, Gira, (Eller 108) 1365=2.510+(365) = 1×345 +4165) SAO 1 92. x2 + x3 345 = 2.165 + 15 12 - 93.x3 + x4 165=11.15 + 0 53 = 94.24 Co=x b=> XS = X3 mad X4 = O=xita x2 mod x3 = 15= x; aoxo + 5x Xx x3 - 5x med 22 - 165 X = Xo med X, = 345 x4=0=15 X0 = 1365 xx= 840 XSIC II X 4 just

9

345 = 1365 - 2.520 765= S10- 1.34F Derot elly SY = 0rs /8-) + 598/ 8 = 345 - 2. (510 - 1.34F) xs 7× = -2.510+3(1365-2.510) = -2.510 + 3. (343) 01=15= 345 - 2. (165)

OF. Yo, X, EIN XON XA BUARYE

Anzest de WHILE-Ourchank in Euss. Alg. max. 2. Rog_ (xo). Dooren 4.31 Re. Erjobe X, Xx & IN mit x0 xx betriopt de Pro Palo rereguy "salues Problem La pate ~ Agol 98 Barduny & Diclin # WHILE-Durd Park

3

mid Eusea. Als. 2115 G g V (5,7)= 1 5 = 2.2 + 1=50-2(7-1-5) SYIT 2 = 2.1

-1-3 3 Muld. Interso 24 8.

1=3.5-2.7

D

Benes Dearen 6.31:

AMM: XOXXXXXXX XOXX E/P

X0 × × 1 × 1 - 1 × 1 × 1 × 1 × 0 ×

X Sigi Wi Vor Ser

X 5-1 = Q 5 x 5 + X 5-1

9, 92, --, 9;

?=-">= }

VISX V SX V Y-SX

ノアタンを介

xi-1 X X; + xi+x > 2xix

=> x s+1 < x s-1 " alle 2 Ourder f.

1-1-1

8000

E

Argumente ... nach 2. Rog, (h) Schrifte muss War Xi < 1 sein ×2× × × 100 × 107 × 107 26 PM all priving 7,4 8:3 X2 / 20 [7.

(D)