+ ab eahlbar (Bizzlia) Kar Wina Ditecton: Unt a sohe dung Unerdoch + aba absorbar

Vacoren 4.3 Taigmengen Abrdiag, Kasdmisha (Samlla Vollag)

Thrown 4.4 2 Mx My, Roward, (Contoriscle Absortofat.)

Veront 4.5 AXB, AUB RESIGG, Konshughm (INXIN)

Jacoren 4.6 P.A -> B Surpain Casating, Konot madia (Schoole Vorlang,

R ibsabeillbar

Rone Bystin (Diagonal Siemap Trick) Co Rrishet

9

VROOKEN 4.7 (C) ist abzählbur unonded.

2 is at suffer unended (Th. 4.4)

21703 ind assort Obas Un edud (Th. 43/

2x 21703 ist absent unended (Thigs)

g. 2×2/703 -> Q &(a,6)= a

Surpsing Abb. (Th. 4.6)

at 2 '66 81503

Programme: Debly sprade (Jura 2.B), Geleich Anzubl von Zeichun Z + Hat disson Problem dis mit Rochel Jsg. Ex. Compular program, doss dos Essus Aveda quil. Bet 1. 54 ist assatissar uneralled => & absatissar unedalled. Problem in IN godmen ! + Andwork in IN A Fair 4 Febrislellan ob 30 pin Problan oling Avl 128 Bewis: New ish Kardindilati Merr Ast. als Programme ! PESO P Mary alle syndactised Sorre the Programme PIN - M barrole Sur P. IN -> IN due will bared ansar 8.20. Wordprieson als Famblin bookerson? TROAM 4, 10 E 9.51 Fullina

(~)

Desi Sograpisele Ordany 1 10 100 DO 100 + His gds & reinad Bet. 1 Bow's: + Sortine Worle had Longe 2 ×3 0=8 5-8 2=8 7=8 Angzahlany, IN - > 2 by pline And zology 5-30,13 Som:

Diagonalsiampodrich: Indirect: Ann: Fist assittson woulders Beh. 2; I Mery alle Fundtione f: IN M isserabzüllbar. => I bigain Abb. (Aufrahy) h: M => T fr. (2, 13, fr. -- h(s)= fs

n 1-> 2 2 full = 1 B(i) + g(i) Y jem 4 2 - 2 8 Jepinian 1 n(1)=1:=8 aba 123456 Q2 (P(4)) Q(2) Q(3) Q(4) --P2 (P(4)) P2(2) P3(3) P3(4) --P3 (P3(4)) P3(2) (F3(3)) P4 P4 (P3(4)) P3(2) (F3(3)) P4 Des Aufwilly has well Mass Aun RX. & mit.

of Jun in da Anfraylus will voisonmen en neus of Sandranes Zeg, Useraszár Bar Ann, Rufzülany 25. Фг Сгл (дг2) Ф23 Дз Дзл (дг2) Ф23 Usa Diagoralphort Diagonalsamug (des: Diagon al refahra (Cambor) Abriblen solvena 717

3 ||

(G)

die will backabar Sind. (Erstorbows!) S 2x FR! P: (N-) 112 Jh. 4.10

Spraß, umanfacted Sar. Vicht Borechassar (=> Wortprossan 52%.

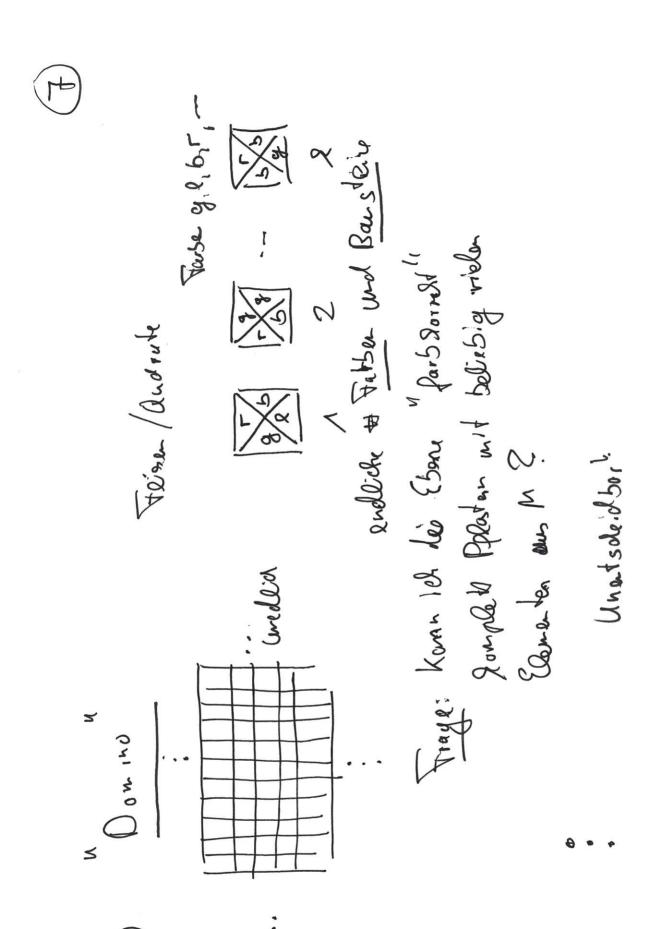
Konzul unentselodsan Probleme V. Grundsätzlielle Schrange

Asgorithmen und Berchnungs sonalexilet IM.

(1) Game of Life + Population von Zellen

+ Fot Regen

Was mird and and Papulation:



4.2 Abzühlende Kombinadonie

-> huhrsdar Bolde Van -> Algorithmen Kon positéisasseil ang

Velalia en

Definition 4. M

26 M

4 Jela Dict!

Y =: 10

nt 1No, 26 30, -- , n3

8! (4-2)! (2) (2)

" n USa 2" Binomial Sorffizint

17: 2>11 000 2<0 (2) =0

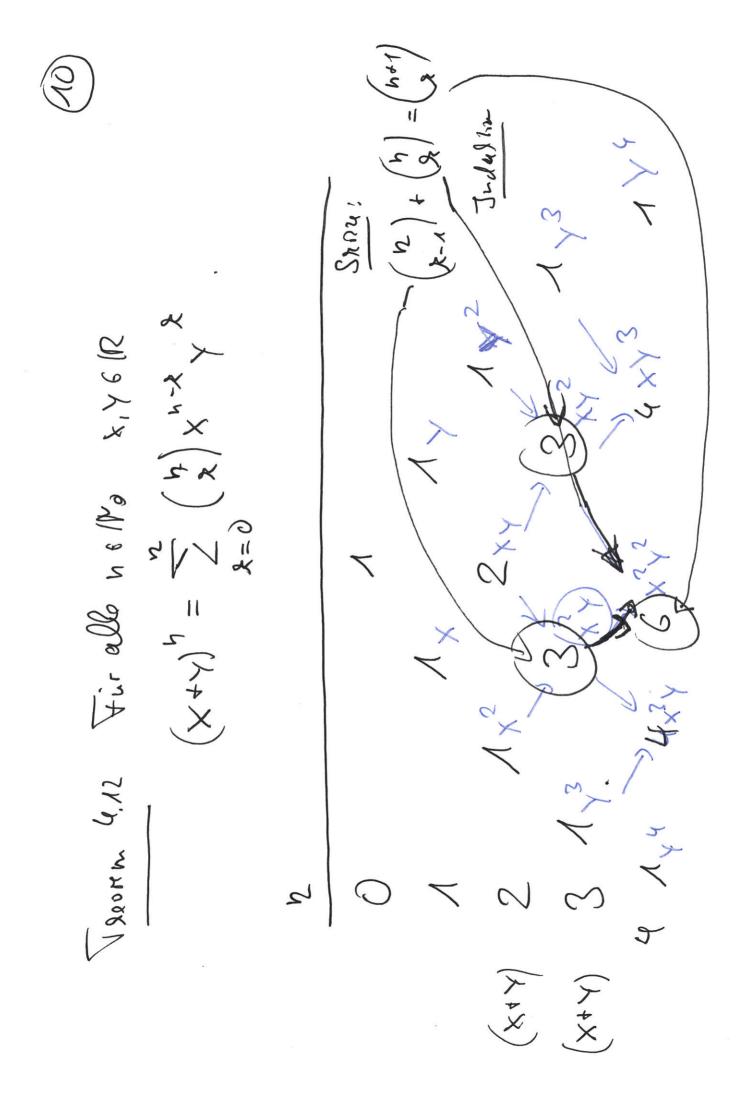
26 20,1,2,--,23 ne Po 7-4 \ \rac{\rac{1}{\chinter\fint}}}}}} \endotinter\rightite \right.} \right. 1 SOUTH 4.13

Berus: Ober St is Definition

R! (4-2)! 7 [(h-x)! (n-x))! = 2 / h-2

アナリ n; (n-2+1) +2 n! 2) (h-2+1)! (8-1); (2-8+4); 2: (4-2)

(1241) = (1241) = (1241) 12 = 2! (N+1-2)! n. (4+1)



7

Frage: h. (n) was backwheel dos witholders ?

A) n. i Anzar des sogenannten Pormutations.

(BSP) M= 24,5,c3 # gro, dieta Tupel (3a Tupel)

(23 / (32) (6,6,9) (6,6,9) ((6,9,9) ((6,5,9) 6 rescriedan Tupel 1.2.3-6. Parmilertionen N: 21,2,3,--1,43 -> 21,2,3,--1,43 bigalin

N/1/2/3/4/- 1/2 2/4/2/3,-1/2 24/2/3,-1/2

2-stelle (n-1) Majeidrata for jell disa n Majeidlette 3-5400 (n-2) Mojcasher for gale obs n(n-1)(n-2) --- 2. 1 viele n(n-1) vilan Mojeashern resoludare n-Nupel# hasdredge gendade (georded) Tuped Rombinaloised Argamanlohan 1-Stade 1 no-Madrata