talladen paj

- løgila: Vývolora' i predikatova log. En (1. radu)

- mugsing

-
$$0,0,-$$
, $A \setminus B = \{x \in A \mid x \notin B\}$
- $=$, \subseteq , \subseteq , \in [pro wn-y A,B a product place pool $x \notin B$]
- $2apris = \{12,35, x \in A\}$
 $N \in \{12,35, x \in A\}$

A1 x --- x An = { (a1,--, an) | +1 & i & n: ai & Ai & relace ? na mu-ade An-, An: P E Anx -- X An olasfussli relaci, kondvétne sinárních velaci (€ CAXA:
- Sourislas! + a,6 EA: a+b > a96 v bQa reflecioni, i reflecioni - taca: asa Symphicka! asymptoida autisquetricka! CAXA LY a, beA: aSb, bsa > a=b - transition wearer relace 9: 9+5 AxA defrava del se + a, b ∈ A: Q9+6 € ∃m≥1: ∃a_{1,--}, au ∈ A: a=a₁, b=a_n, ¥1≤i≤u-1: ai Sain reflexion à branz ibdrev relace: StEAXA Latera (E ()* = 8+ U {(a,a) | acA } - soivallure: vefler, Sym., trans - ryfrati roslad na hilly - major = 3 C N× N (O) (I)

ostre / neastre uplue / Easteine usporadaus. £6,03 € €0,6,0} Sourisla' velace, ivefleron, €a,b,c5 & € 6,d3 asquelniza! theurifism. Casteina fix f: A - B \ min - Junice J: A > B ge relace f E Ax B falora (& : 1) $\forall a \in A \exists b \in B: f(a) = b$ / weboh. $(a,b) \in f$, 2) $\forall a \in A \not b_1, b_2 \in B: f(a) = b_1 + f(a) = b_2$ a $\Rightarrow b_1 = b_2$ - ingtel J: A>B je junter A>B talona! Te + a1192 EA + bel: flan) = b1 flax) = b = a1=a2 - surfice f. A->B je fre falora! të theb JacA: flal=b - bijotee : injetel a surjeter - Sporthal muna A: 3 bijélet + A CON

Formalui jazyk - akereda E - L = 5° U 5° U 5° U = U 5° m = 0 5° - operace uad jäzgh: $\langle v, 0, ..., L^{+} = U L^{M} \rangle$ speciallul: $\langle v, 1, + \rangle$ 1 = () | M - lypocitaile: - 07 = { E } - EE3# = EE3 - 0+ = g - EE3+ = EE3 - DU { E} = { E} - ONL = OTO EFL - 283 NL = { EE3 EEL - BO EE3 = D - Ø - L = Ø - £83. L = L [3] = [3] - [3] - Ø· EE? = Ø

Gramatiky from nepr. abeleda

- G = (N, Z, P, S)

L SEN Lon un-a netern synt. P = (NUE) × (NUE)* - velace privois devirons = = (NUZ)* × (NUZ)* Lakong; ce + x, yn E (NUZ) = x = y = IX, B, J, J ∈ (NUZ) +: A = Pai on yu= gron (x-B)eP. - velace données : 3 - L(6) = { WE } (S = w) - Uvarue gramatika G=(ES,A,B3, Ea,b3, P,S), bele Ilystrace world deriran. S D B => 6B => 6B => --Zapiele unosever jacy L(6). L(G) = & a | M > 13

- Zapoiste mu- vé jaryl granaht 6= (ESJ, EaJ, ES-285,S). Chomskeller blanfikace gr. a juzylu A > WB | W , lede A, BEN, WE Et - tgp 3 = _ poore' livearn (NKA/ neto A>BW/W, hole ---DUA! - leve linear ("melze un'si] le mesol na ADaBla, AB+N, aE plus, 5-> E, Ide S so prip. newyslyty - analogiel: levé vegula-1 A -> X, hole HEN, XE (NUZ) KAB -> XPB, lide AENIX, BE (NUZ) + (FE (NUZ)+

neto S>E, hde Spenerul... (#) Albertalie: X > R, xBE (NUZ) implicible
add 10131:11 (XE, ade |R| = |2| nete S>E ---(NUZ)TN (NUZ)+) - typ 0: steene grandely - Zapiste unosirare jazyky geneterand nasledyjal.
granahikami, posudte typ granahly a typ gizyka. α_1 G = (253, 20,13, 25-)181/080/EJ, S)5=> 151 => 10501 > 1001 - L(6) = { WW | WE E0, 13+3 - typ gr. 6: 2 - typ på zyla L(6):2 6= (ES, 23, Ea, 63, ES-) aSb | Z, Z-aZ | Zb | EJ, S) S=> t=>8 - L(G) = [a"6" | n, m ≥ 0] S= a Sb >> aa Sbb=> Daa 266 Daaa 2663 - typ 6: 2 >aaabb - typ L(6): 3

honeire L(6)= L(6), Ido 6 = (25, AJ, Ea, 63, ES) aS | A, A>6A | EJ, S | - Sestrojte granatita, Elexal generaji reterce mod $\frac{20,13}{20}$ latare (to obsahum sndy pred nul i zidmicit, neboli. $\frac{20,13}{20}$ WE $\frac{20,13}{10}$ | #a (w) mod $2 = \frac{10}{10}$ (w) wed 2 = 0 } P: S-E IOA I 1B G= (& SA, B, CJ, EO, 13, P, S) A -> 05 11C B-> OC 11S C>OB /A - Sestrojte grandhen, Stata' generujé jázyé & a Vicy/ n 2 1 3 P: S=aSBC labC S= aSBC = aaSB(R) => aaa bC BC BC CB->BC bB→bb 7 b→b bC → bc | CAC cC → cc | CAC =) agabe BCBC => X > agab BCCBC >) anabbece BC > 6=({S,BC3, {a,bC3,P,S)

- Sestrojde granahela, Sheta' generuje jarys { a b | n ≥ 13 = { aaa b , aaaaaaaaaa bbl , --- 3 T plue domaine strey P. S > AS | Aax S=) AS => AAS => AMaX => AAaaaAX => Aa > aaa A > A aga A ag AX > AX -> X6 16 DA aga A ag X 6 => G = (ES, A, X3, Ea, 63, P, S) = aaa Aaa Aaaxb=> ... => a²⁷ b³ - Sestrojte grandriku tegpu 2, Eleva genergi jazy E L= { w < 2a,63* | #a(w) = #b(w) } P: S > a S b 3 1 b S a S 1 E 6 = (? S 3, & a, 6 3, A S)