## GRAMATICE

- (1) CFB pentru cu€30,63 cu 2/w/a 23/w/b
- 2 CFG dependenta de contex per L = 3 cm c m d m | 2 m = lw/a m = lw/b?

  3->5, #

  9 ognamatica e ambigua daça exista ae

  9, -> a5, c

  petim un cuvaint care poote figement de

  5, -> 65, d

  gramatica puin 2 about de duri are

  5, -> 2)
- actimul BH-> d

  en con le generiera ment ambigue.

  bre Del -> del

  transforma 04-20
  - (3) L 2 3  $w \in \mathbb{Z}^2 \mid w \in \mathbb{Z}$  where  $\mathbb{Z}$  we can not de personate to fincture could?  $5 \rightarrow (5)51$
  - G L 2 3 W E E \* | | w | α 2 | w | b }

    S -> α S b | b 5 α | 5 5 | λ
  - 5 WALKARY AND WAR TO THE STORY OF THE STORY

5 -> AB 13A 1A 13 MARCHARA

BA-> a | aAa | aAb | bAa | bAb MA m B vargemera meren B-> b | aBa | aBb | bBa | bBb auxinde de eurogime impara

not not gormes obbas

ba: 5-, AB -, aB -, ab&a > abba

## Demonstratia coestitudinii:

- 1) ouch en caramet as not import de ators o not the in of a generate
- 2) Fie x E L, 1 x 1 z par. Pronupum ca'x poate l'auscompus ca x z un , 1 u l, tul împaru oi u oi re aux litore antrole deforete

× Paceto At Compatible Son AB you im BA.

Justificana prompunioni:

JOJX (4) Cr 7 AX wm \* = \* 1 x2 . . . xm メントのサンメインX インX M

Pat na alua uz x1x2... x21-1 on atora anthosa xi W x x 81 . . . x m cu atena cumtrala xi+m

1) am dimponnation call c L(6)

Vhear sa dimomotres n'es L(6) CL

- 1) One's accome of exampling impana a li
- 2) Tie daca | u | z u / u (au externa untral differite) prompunion ca a foot orrivat or AB (anotog pt BA) is x = une on either untrale differente xel(6), IXI 2 paro. 2) Da font generatedin ABrown BA 7 3 x c 7

daca lul 7/21 motes Ju 26 100 2m-6

eitora anthoda ptu: u et m pt avav-et

on, cum u a foot generat de A on re de B 12 u 64 4 u w-6+

adumai îm w va exinta postitia etz aî baca smounc pa ie duocompum pe x = ww 1 lw = |w | \$

(2) W 64 2 40-Wx 7 1+0 x mm LC1(0) 20 27 1 2 d(G) 10 to 0 2 ф. Ж

123xy1 1x12/y1, xxy? 5 -> AB 1 BA 1/ L are door auvinte de sungime para A -> a laAa laAb lbAa lbAb B-> 6/aBa/aBb/bBa/bBb G generata L(G) 2 3 m. x m2 21, y 22 / 121/2/2/2 121/2/2 \* \* 4 4 3 wor cuverne du exempime 3me orste pon Lasura w??
Lasura w??
Lasura w?? Podio & CIG CU: · al putin & production · 0 productie de lungime 25 · 2 empty production · o phoductie con otenge materialimente. Precizati eimbayul gramaticii. -> empty production: A -> A -> unit - productions: A -> B -> limion la dreapta; A-> X | AeH XEZ\*
A-> NB BEH XEZ\* -> regulat: right eimean san eift eimear L(G) & 1, abed, abeda, abedb, S-> abcdA | h abcde? A-> 1 13 B-) alble 1 (8) Transformati in FMC: -> A-> BC m A つa mingura regular cent product à poste fis m' im aust car 5 mu a pare in milm brue drept al miciames producti A->X mi A apope for mumbball drept all en B-) Ala

-3-

Parcel : E eime mone minimbooure pour meterrant mobile (cons nu produc <del>con</del> cuvints famate door din torminale) ea care mu re ajunge pour durivors din 8

Ponuez: Esimimonea N-productio en (n'eliminanea din nou a mimboscurila mefosconitoare)

Porul 3: Elimin unit productions

Parulh: e ~ xe >> xe >> c m' implacuione ficcore aparutie

Parul 5: Elimin productive de lungime 23

1) pt gramatica mea

PODD: S→ abod I abod \$ 11 PHONGEN A->B B-> a 1 b 1 c

pos3: S-> & abod | abod A | A

Posh: S→ Xa Xb Xc Xd | Xa Xb Xc Xd A | X A→ Xa | Xb | Xc Xa→ a Xb→ b Xc→ ac Xd→ d

> 5 -> Xay, | Xay3 | X 4-> X642 42 -> Xc 52 Xd 943-> Xb44 44-> Xc 45 46-> Xd A A-> Xa | Xb | Xc

```
(9). Lzzwi w? OK+3 | we 30,1/*, i, KzO)
   S-> AB
    B-> 000B / X
    A-> O AO I LAL I C
    C-> 2C/A
     L = 3 w 1 w € 30,1,2 } , (w) = 2 1 w 1, > 2 ? U 3 0100,110 }
 S -> 0100 / 1101 /A
  H -> BOBOBIBIB | BOB1BOB1B1B0B1B1B0B0B1B |
      AH I BOEWETETE | BOENETEOGTE
  B-3 5B1Y
                             COLUMN TURK
                       PS 0011 10101 10110 1 1001 1100 11100
      S-> 5050301/S
      5 -) ASA O AS
      5-> AOAOA@IALA | AOALBOAIA | ALAOAOA1A |
           ADALALADA | ALAO ALAO A | ALALAOAO A 155 //
                                  toute peribilitation de muinte
      A-> BSB 2A 1>
                                  u julo 2 lul, n'al putain 20 2 de 0
      B> 28/1
                                   n ader
       223 ai Wick / itil 2 Kl. 3 W/ 2/W/23/W/b)
  (11)
      5-> AB
      A > CID / Czitjsk, Dzitjkk
iti>K &C -> acc | aE | I
im dya E -> bec | be | > 1/E im ream ma ca dya am um a im plus
# -> bEC | bF | b 1 + imoxamma ca mulam uma im peus
                              n' trebuie sà le perm de la b
       0- abc | Dc 1@6c | H
       6 -> 600/60/1 1/8 inneammer out ampus dyla un c in plus H-> 600/HC/0 NH inneamma out thebreie 20-8 per acuma
            B →
             Ba Bb Bb Ba Bb B) Ba Bb Bb Ba B ]
             Bb Ba Ba Bb BbB | Bb Ba Bb Ba BbB )
             BbBa BbBbBaB | BbBbBaBbBaBaB ( BbBbBbBBBBBB)
```

BL L 2 3 W / WE 30,1,2 1 ,3 /w/07 / W/1+23 8-3131305 | \$13150515 | 613051515 | 5051515 | 101 | 10

5 -> 10101 155 | 51110 | 31101 | 31011 | 50111 5-) 80818 | 81808 5-3 801 1081 1018 1810 1 180 1 108 

proprietatea ca 3/w/o = W/L

ou ou commune tooke animated on K+1 0-uni in 3K-1 1-m.

(3) L = 3 w / w = w x 3 K+1 = 2 1/ 5- asa | bsb |a|b| )

ungrainsty ged mys 24? 2 3 12 xy 2 1 1x1 ≠1y1

(b) L2 3 xy2 | x x y x 2, |x|2|g|2|2|3