

	(simb terminais)	(ean frank)	(ande é enamado)
Stant	2	4:24	Ø
VanAmay	2	liah	1/\$1, 34
Imdi ess	5	3 C Y	3'4', '2'4
Imdex	2	haum, idy	4,2,6

	1 4	1,9	mum	7	C
stant		stant -> ranAmay\$			
Yan Annay		vanAnnay -> id Imdi	ക		
Imdi een	Imaicen - E			Indices → E	Imdi een
Emdex		Index → id Index → VarAmay	tmdx → mum		
		Logo a gnamait	1 maj é 1	26(1)	

(term 2 produsão)

e) Stant → Van Annay \$

Van Annay → id Imdices

Imdices → [Imdex] Imdices

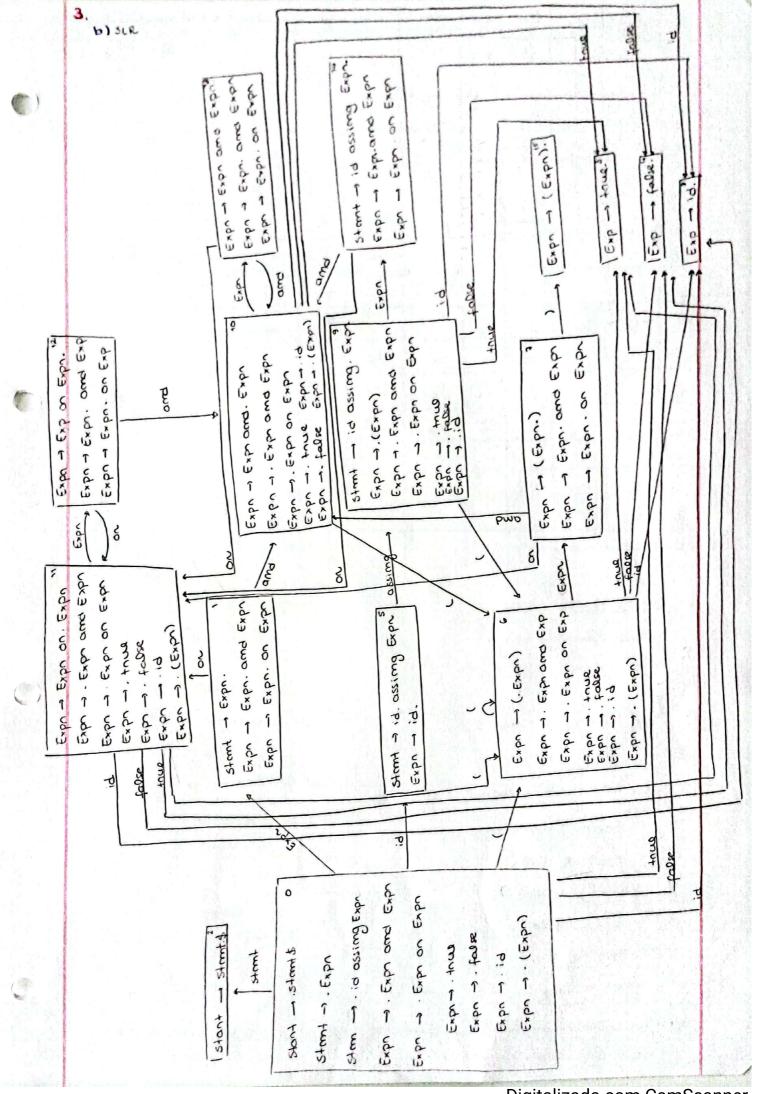
I E

I mum

mesta eilula dara de harer 2 produções, par isso, existe 1 produções em cada ecelula preementa, logu e LL(1)

Digitalizada com CamScanner

[rudua] e



Digitalizada com CamScanner

	\$	)	(	id	topie	thue	00	amd	-	stant	Exp
0			56	55	54	53				92	91
1	л,	. 3					511	5.0			
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3_	15	25	H				25	25	1	die die	
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5	r.,		24				24	<i>r</i> <sub>1</sub>	59	7	
6				58	54	53					9+
4			515				511	510			
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13	13	<sup>71</sup> 3	17				511/23	1510/23			
14	nz					54 54 54	511	510			
15	18	18					rg	228			

Follow (start) = 401

Foclow (slimit) = 4\$4

Follow (Expr) = 4 and on. ), \$4

20: stant - stant \$

71 : Stomt - Expn

22: Stant - id assign Expa

23: Expn -> Expn and Expn

M4 : EAPO - EXPO ON EXPO

25 : Expn -> towa

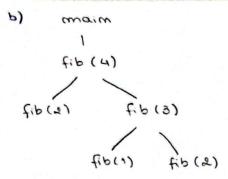
26 : Expn → foller

va : Exbu - ig

28: Expn -> (Expn)

(1) A gramática mão é SRC parque term eampletos e ecomo mão é SRC também mão pade sel CR(0)

```
- e) stant - ran Annay $
      stant - Expa
           1 10 = Expn
     Expn - Expn on Tenm
           1 Tenm
     Tenom - Tenom and Factor
           1 Factor
      factor - true
             1 false
              1:0
              1 (Expa)
  a) fib:
         1 m := panam [0]
          5 it wi=1 30 to 5
          3 ti := 1
          4 return ti
          5 if wi=2 go to 8
          6 Lp:=1
          7 Return to
          8 tz:= m-2
          9 t3:= m-1
          10 param to
          11 tu := call fib ta, 1
          12 panam to
           13 to := call fib t3,1
           14 to := to + ts
            15 return to
        main:
            16 panom 4
            17 ty = eall fib , 1
            18 return Es
```

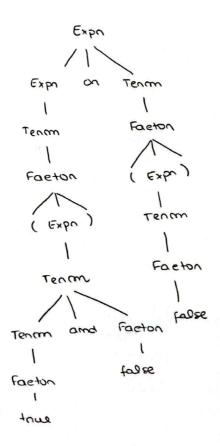


c) Panâmetros formais, ralones de retormo, old stock pointer, frame pointer, alternativos, ...

Como non - 021 0202 emport

٨.

(1) (1 now and take) on (take)



	Nullable	Finst	Follow
Expa	N	Hous, false, ()	300.16
Tenan	7	House, talke. (4	hand, on, )
facton	n	Home, Harre, (4	} amd, on, ) }

	4	00	bmp	tous	false	1 (	)
Expn	F 1			Expn - Expn on Tenam Expn - Tenam	Expn → Expn on Terror Expn → Terror	on tenom	
Tenan				CITIES HOLL	and Paeton	tentm + Tenm and Factor tentm + factor	
Factor				Faeton - 1 true	FORTON -1 FARM	Factor-4(Exp.)	

Existe mais do que uma produção ma mesma célula, logo a grarmática mão é (L(1)

e) Eliminar recursindade à esquerda

Expn -> Tenam Expn1

Expn 1 -> on Tenam Expn 1

T. A. . 1 & ,

Tenon - Faeton Tenon 1

Tenm 1 - and faeton Tenm 1

ع ا

factor - tous

1 false

1 (Expa)

	Nucleako	Finst	Follow
Expn	2	ttame, fallse, (4	3){
ExpnI	5	lony	3) 4
Tenm	7	thus, false, ( }	300,) 4
Tenm1	5	1 ama f	300.)}
Factor	~	Home, tabse, ( }	hame, 14

First (Expr) = First (Term) = = First (Factor) = Itnus, false, ()

First (Expn1) = for y

First (Temp1) = famely

Follow (Expn) = f) y

Follow (Expn1) = Follow (Expn) = f) y

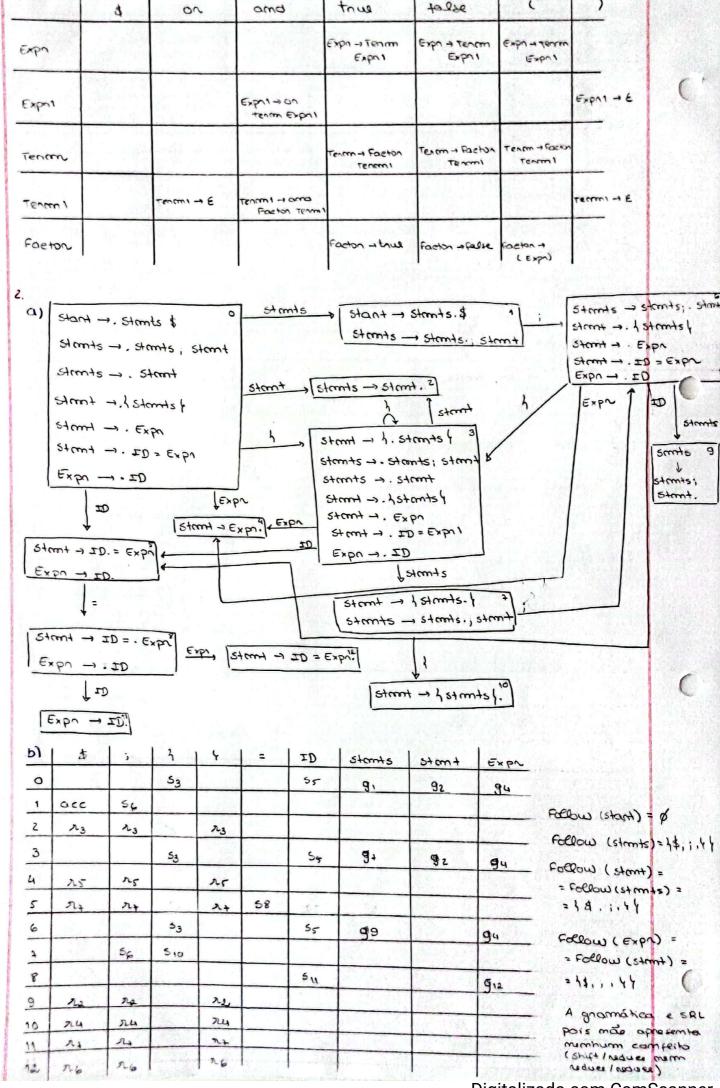
Follow (Tenm) = First (Expn1) U

U Follow (Expn1) = for 1) y

Follow (Tenm1) = Follow (Tenm) = for

Follow (Factor) = First (Termi) U

U Follow (Tenmi) = hand, ) }



د)	P. Iha	Emtra da	A400
	0	1 id = id 1; id \$	53
	0, 13	id = id 1; id 1	Sr
	0. 13, 105	= id   id \$	38
	0.13,105,=8	124,12\$	5 11.
	0. 13, IDS, =8, ID "	4; 14\$	24
	0. 43, IDS, =8, Expn 12	1:10\$	26
	0, 13, stant 2	4; 10\$	rz
	0, 13, Stants 7, 1 10	\$ 100	nu
	s hombe, O	; id\$	بع
	O, Stonel	; (4\$	56
	0, strms1, ; 6	:2\$	55
	0, 54ms1, 16, 705	\$	7.4
	0, 51cms1, 6, Exp4	\$	25
	0, stans1, ; 6, stants9	दं	مر
	0, s+ms1	\$	occ

```
3.
 a) fib:
     1 m := param [0]
     z if m!=1 90 to 5
     3 t, .= 1
     4 naturn ti
     2 it w 1 = 5 do 10 8
     6 t2:= 1
     of monuter f
     8 t3 == m-2
     9 tu := m-1
     10 panam to
     11 to := call fib to , 1
     12 panam tu
     13 to := call to tu, 1
     14 to := to + to
     15 return to
  main:
     16 panam 4
     17 to := eall tib. 1
```

18 netunon to

