

TP2

1a) ID  $\rightarrow [a-z]^*$

NUM  $\rightarrow [0-9]^*$

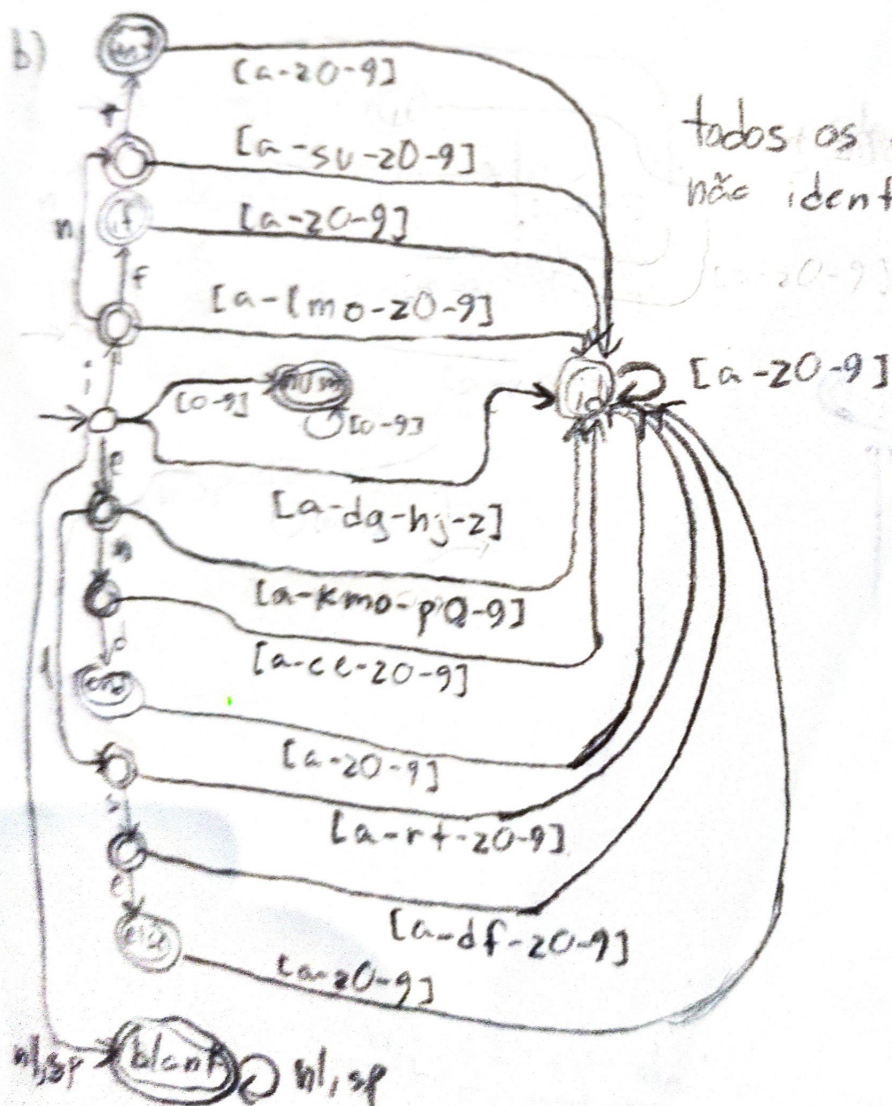
INT  $\rightarrow n^+$

IF  $\rightarrow i^+ f$

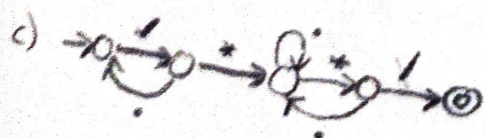
ELSE  $\rightarrow e^+ s^+ b^+ s^+ e^+$

END  $\rightarrow e^+ n^+ d^+$

BLANK  $\rightarrow sp, nl$



todos os estados finais  
nãe identificados são IDs



•  $\equiv$  Todas as transições não explicitas

re:  $\wedge / \backslash * . * \backslash * \vee$



JD:  $\rightarrow (a-2) \rightarrow (a-20-9)$

NUM :  $\rightarrow \text{O} \xrightarrow{[0-9]} \text{O} \xrightarrow{[0-9]} \text{O}$

BYTE:  $\rightarrow \text{O} \rightarrow \text{O} \xrightarrow{\times} \text{O} \xrightarrow{[\log_2 f]} \text{O} \xrightarrow{[\log_2 f]} \text{O}$

WORD:  $\rightarrow 0 \xrightarrow{0} 0 \xrightarrow{x} 0 \xrightarrow{[0.9a-f]} 0 \xrightarrow{[0.9a-f]} 0 \xrightarrow{[0.9a-f]} 0 \xrightarrow{[0.9a-f]} 0$

COMMA:  $\rightarrow \textcircled{0} \xrightarrow{\text{3}} \textcircled{0}$

SPC :  $\rightarrow \text{X} \xrightarrow{\text{sp, nl, tb}} \text{O} \text{ } \text{sp, nl, tb}$

A hand-drawn state transition diagram for a finite state automaton. The diagram shows several states represented by circles. Some states are labeled: 'block' (top left), 'label' (top right), 'byte' (bottom middle), and 'word' (bottom right). There are also unlabeled states. Transitions are labeled with ranges of characters: [0-9], [1-9], [a-f], and [0-9a-f]. A green circle highlights a state labeled 'block' with a green arrow pointing to it from the text 'CO-97'.

loop: cmp 051: 0xcd 10 x ba In: ab 0x123 ret

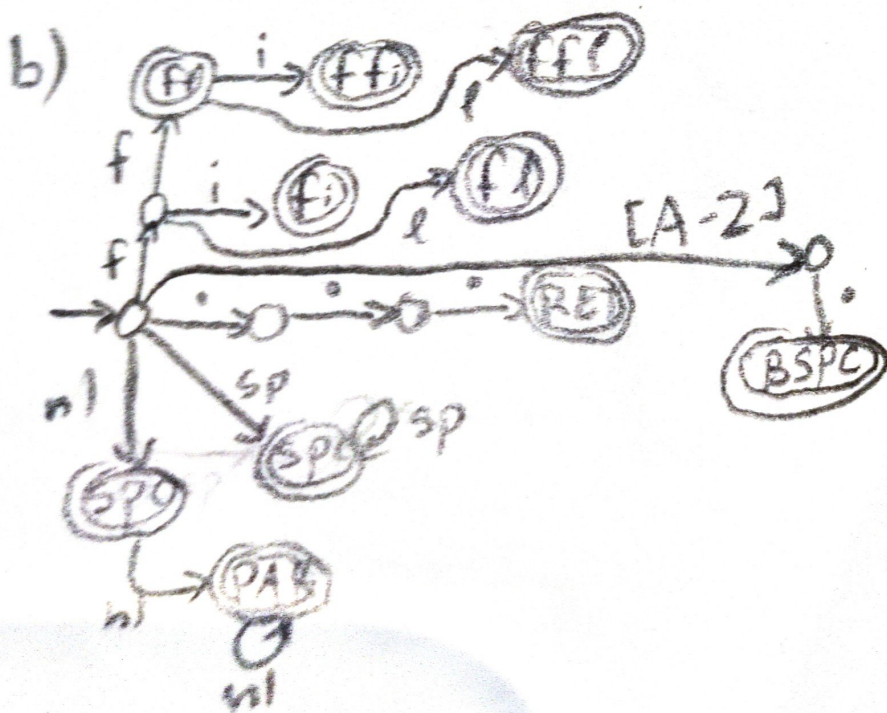
↓   ↓   ↓   ↓   ↓   ↓   ↓   ↓   ↓   ↓   ↓   ↓   ↓   ↓   ↓   ↓   ↓   ↓   ↓   ↓

LABEL SPC ID SPC COMMA WORD ID SPC SPC ID SPC BYTE SPC ID

LABEL SPC   UNKNOWN   NULL



3

a)  $ff: \rightarrow \xrightarrow{f} \rightarrow \xrightarrow{f} \odot \quad ff$  $f_i: \rightarrow \xrightarrow{f} \rightarrow \xrightarrow{i} \odot \quad fi$  $fi: \rightarrow \xrightarrow{f} \rightarrow \xrightarrow{i} \odot \quad fi$  $fffi: \rightarrow \xrightarrow{f} \rightarrow \xrightarrow{f} \rightarrow \xrightarrow{i} \odot \quad ffi$  $fffi: \rightarrow \xrightarrow{f} \rightarrow \xrightarrow{f} \rightarrow \xrightarrow{i} \odot \quad ffi$  $RET: \rightarrow \rightarrow \rightarrow \rightarrow \odot \quad l.l.l.$  $SPC: \rightarrow \xrightarrow{nl, sp} \odot \quad sp \quad [ \setminus / \setminus n / \setminus ] [ ]^*$  $PAR: \rightarrow \xrightarrow{nl} \rightarrow \xrightarrow{nl} \odot \quad [ \setminus / \setminus n \setminus / \setminus n ]$  $BSPC: \rightarrow \rightarrow \rightarrow \odot \quad [ " " ]$ c)  $256 \times |Q| = 3584$ 

Para cada estado, é preciso descrever a  
ação a tomar para cada caractere