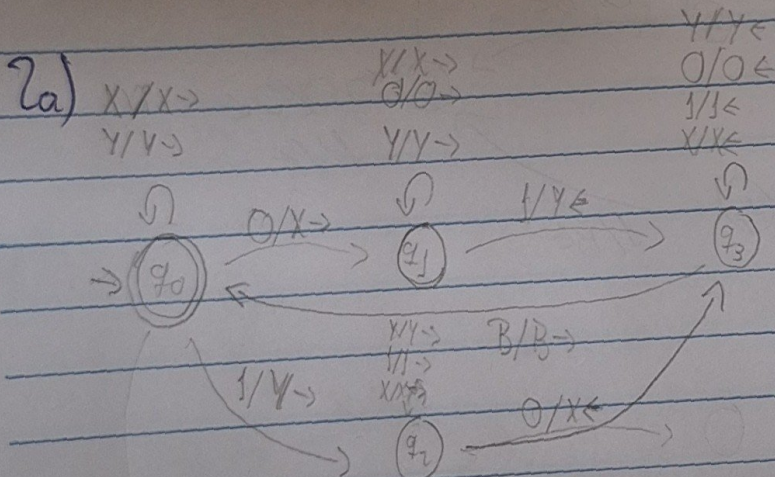


Lista de Exercícios 10

1a) $q_0 00 \vdash X q_1 0 \vdash X O q_2 B$

b) $q_0 000111 \vdash X q_1 00111 \vdash X O q_2 0111 \vdash X O O q_3 111 \vdash X O q_4 0Y11 \vdash$
 $\vdash X q_5 00Y11 \vdash q_6 X 00Y11 \vdash X q_0 00Y11 \vdash X X q_1 0Y11 \vdash$
 $\vdash^* X X O Y q_1 11 \vdash X X O q_2 Y Y \vdash^* \vdash X X q_0 0Y Y \vdash X X X q_1 Y Y \vdash^*$
 $\vdash^* X X X Y Y q_1 \vdash X X X q_2 Y Y \vdash^* X X X q_0 Y Y \vdash^* X X X Y Y q_3 B \vdash$
 $\vdash X X X Y Y Y B q_1 B$

c) $q_0 00111 \vdash X q_1 0111 \vdash X O q_2 111 \vdash X q_3 0Y11 \vdash^* X q_0 0Y11 \vdash$
 $\vdash X X q_1 Y11 \vdash X X Y q_2 11 \vdash X X q_3 Y Y \vdash X q_2 X Y Y \vdash X X q_0 Y Y \vdash$
 $\vdash X X Y q_3 Y \vdash X X Y Y q_3$



$q_0 00101110 \vdash X q_1 0101110 \vdash X O q_2 101110 \vdash X O Y O 1110$
 $\vdash q_0 X O Y O 1110 \vdash X q_0 O Y O 1110 \vdash X X q_1 Y O 1110 \vdash^* X X Y O Y O 10$

~~XXYY~~

~~BBBZ~~

$Y/Y \rightarrow$
 $a/a \rightarrow$

$Y/Y \leftarrow$
 $a/a \leftarrow$

$B/B \rightarrow$
 $X/X \rightarrow$

b) $\rightarrow q_0$ $\xrightarrow{b/Y \leftarrow} q_1$ $\xrightarrow{B/B \rightarrow} q_2$

$a/X \rightarrow$

$c/Z \leftarrow$

$z/z \leftarrow$
 $y/y \leftarrow$

$X/X \rightarrow$
 $b/b \rightarrow$

q_0

q_2

q_4

$c/Z \rightarrow$

$b/B \rightarrow$

q_3

$Y/b \rightarrow$

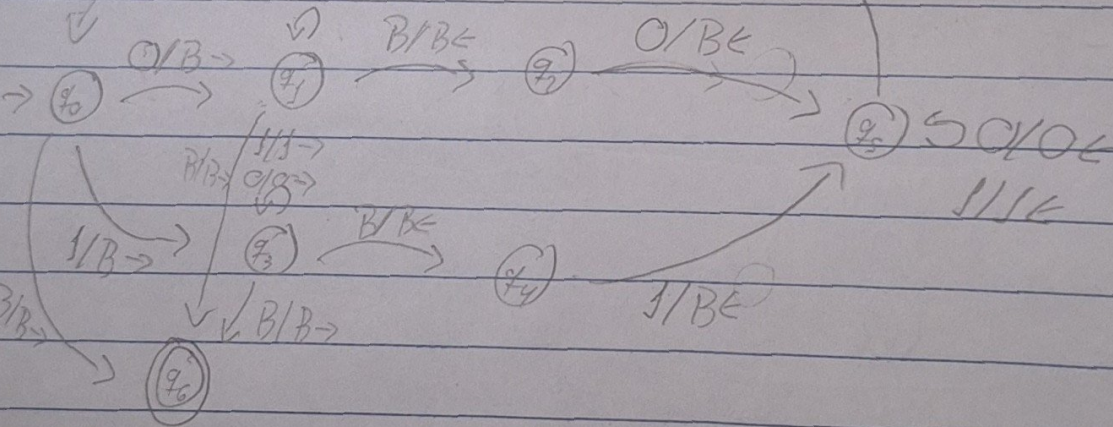
$Y/Y \rightarrow$

$z/z \rightarrow$

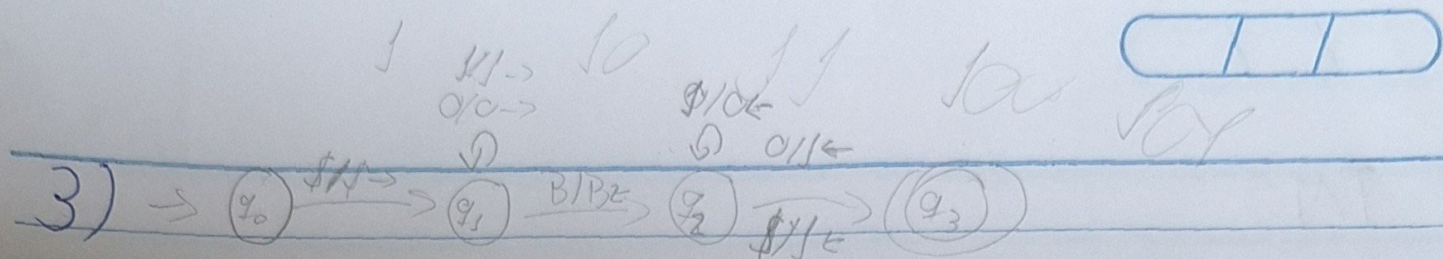
$B/B \rightarrow$

c)

$I/I \rightarrow$
 $O/O \rightarrow$



abba



$$q_0 \$111 + \$q_1 111 + \$111 q_1 B + \$11 q_2 1 + \$1 q_2 10 + \$q_2 100 + q_2 \$000$$

$$q_3 B1000$$

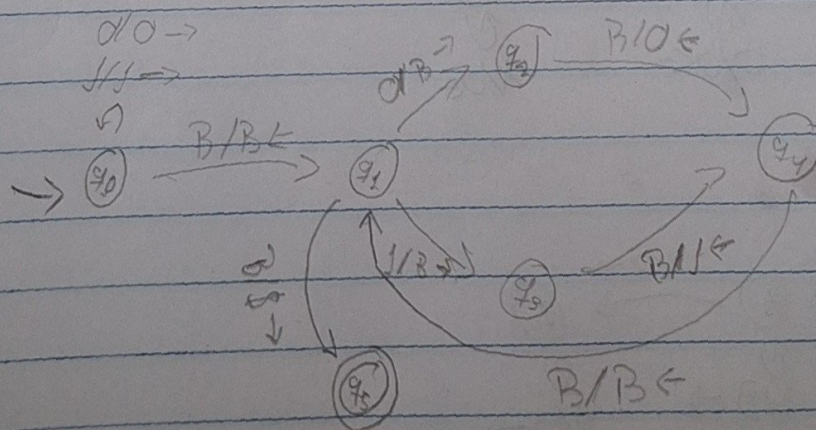
$$0011: q_0 \$10011 + \$q_1 10011 + \$10011 q_1 B + \$100 q_2 1 + \$100 q_2 10 +$$

$$+ \$10 q_2 00 + \$q_3 10100$$

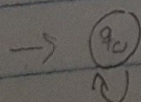
$$11111: q_0 \$11111 + \$q_1 11111 + \$11111 q_1 B + \$11111 q_2 1 + q_2 \$00000 +$$

$$+ q_3 B100000$$

4)

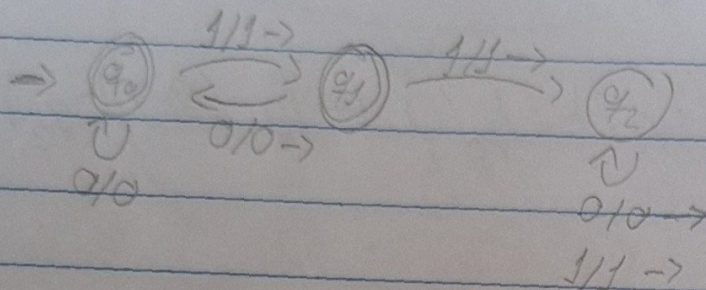


5) Sub routine: Jump 0

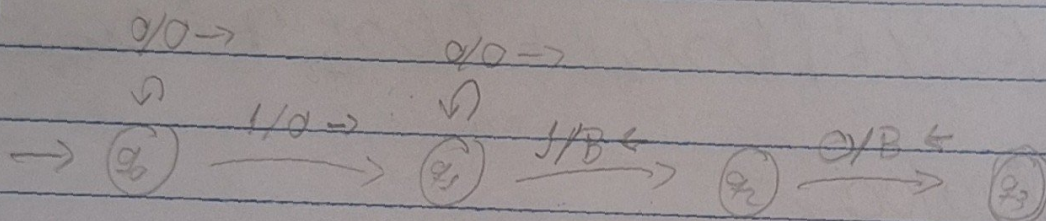


0/0 →

TM:



6)



7)

