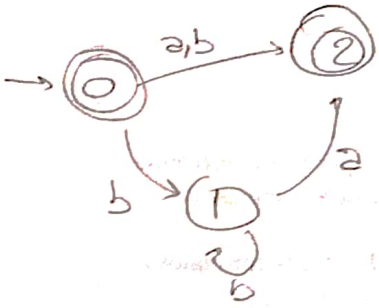
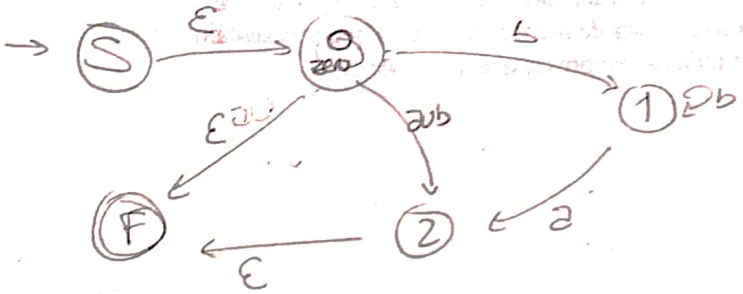


	a	b
→ 0*	2	1 ie 2
1	2	1
← 2*	-	-



	0	1	2	F
S	ε	∅	∅	∅
0	∅	b	ab	ε
1	∅	b	a	∅
2	∅	∅	∅	ε

qrem = 0 $q_i = \{S, 1, 2\}$ $q_f = \{1, 2, F\}$

0, S, 1

S0 ε
00 ∅
01 b
S1 ∅
ε∅*b|∅
εεb = b//

0, S, 2

S0 ε
00 ∅
02 ab
S2 ∅
ε∅*ab|∅
εεab = a|b//

0, S, F

S0 ε
00 ∅
0F ε
SF ∅
= ε

0, 1, 1

10 ∅
00 ∅
01 b
11 b
= b//

0, 1, 2

10 ∅
00 ∅
02 ∅
12 a
= a

0, 1, F

10 ∅
00 ∅
0F ∅
1F ∅
∅

	1	2	F
S	b	a|b	ε
1	b	a	∅
2	∅	∅	ε

0, 2, 1

20 ∅
00 ∅
01 X
21 ∅
= ∅

0, 2, 2

20 ∅
00 ∅
02 X
22 ∅
∅

0, 2, F

20 ∅
00 ∅
0F X
2F ε
ε

Scanned with CamScanner

$q_{rem} = 1$ $\quad q_i = \{S, 2\}$ $\quad q_j = \{2, F\}$

1, S, 2	1, S, F	1, 2, 2	1, 2, F
S1 b	S1 b	21 ∅	21 ∅
11 b	11 b	11 b	11 b
12 a	1F ∅	12 x	1F x
S2 a|b	SF ε	22 ∅	2F ε
$= bb^*a\|a\|b$	$= \varepsilon$	$= \emptyset$	$= \varepsilon$

	2	F
S	$bb^*a\|a\|b$	ε
2	∅	ε

$q_{rem} = 2$ $\quad q_i = \{S\}$ $\quad q_j = \{F\}$

2, S, F

S 2 $= bb^*a|a|b$

2 2 $= \emptyset$

2 F $= \varepsilon$

S F $= \varepsilon$

$= bb^*a|a|b \cdot \emptyset^* \cdot \varepsilon | \varepsilon$

$= bb^*a|a|b\varepsilon\varepsilon|\varepsilon$

$= bb^*a|a|b|\varepsilon$ //

Scanned with CamScanner