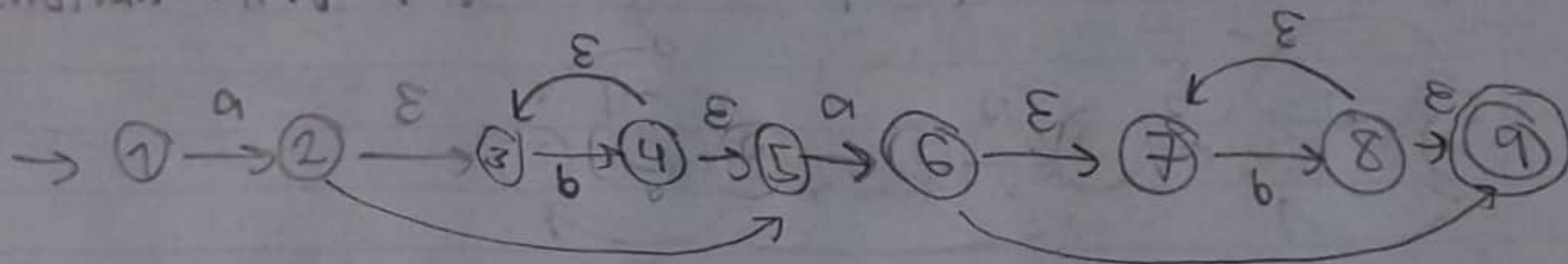


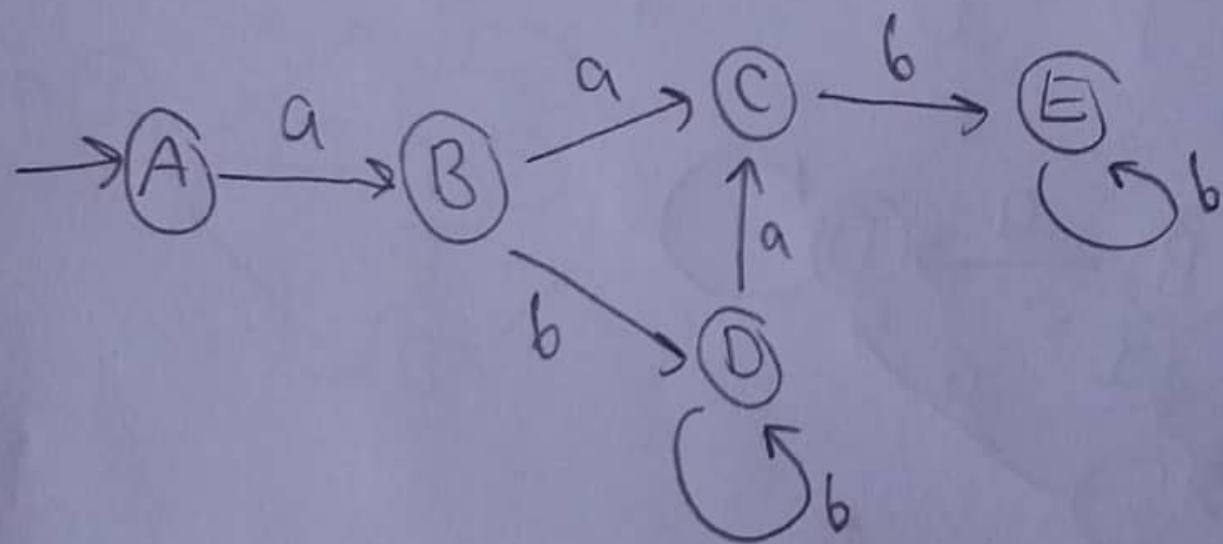
$\Rightarrow \underline{ab} * \underline{ab} *$

// Construire AFN (Algorithme de Thompson)

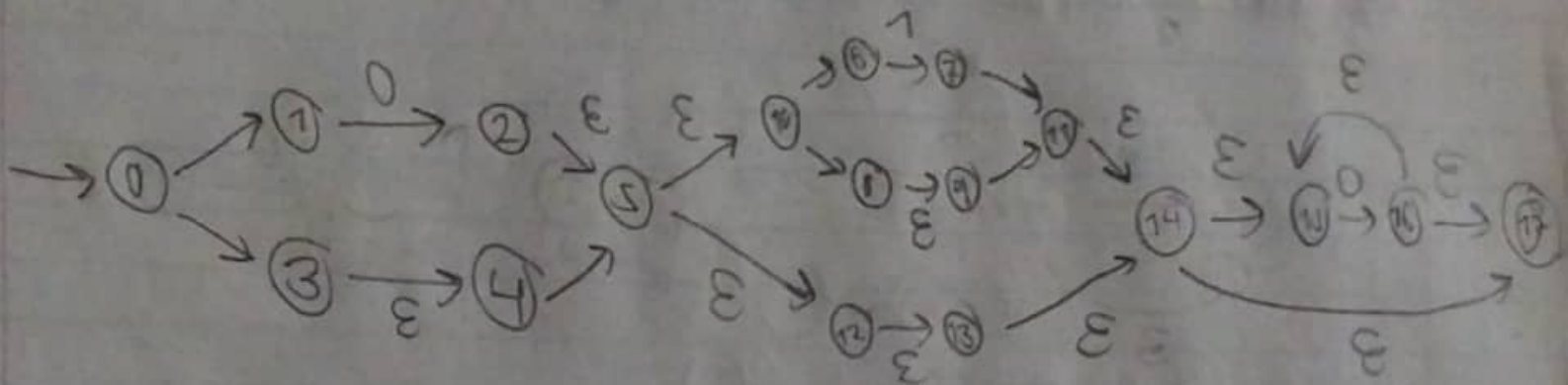


$ab^*ab^* \Rightarrow \text{AFD}$

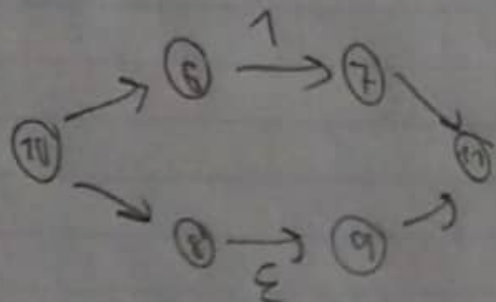
Conjuntos	Estado	a	b	Estado	a	b
$\{1\}$	A	$\{2,3,5\}$	\emptyset	A	B	\sim
$\{2,3,5\}$	B	$\{6,7,9\}$	$\{3,4,5\}$	B	C	D
$\{6,7,9\}$	C	\emptyset	$\{7,8,9\}$	C	\sim	E
$\{3,4,5\}$	D	$\{6,7,9\}$	$\{3,4,5\}$	D	C	D
$\{7,8,9\}$	E	\emptyset	$\{7,8,9\}$	E	\sim	E



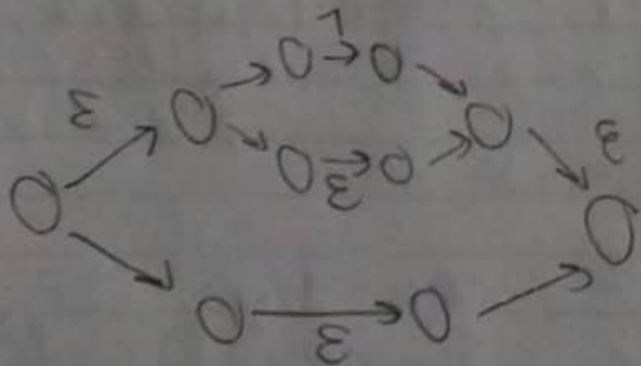
$\Rightarrow 0?(1?)?0^*$



$1? =$

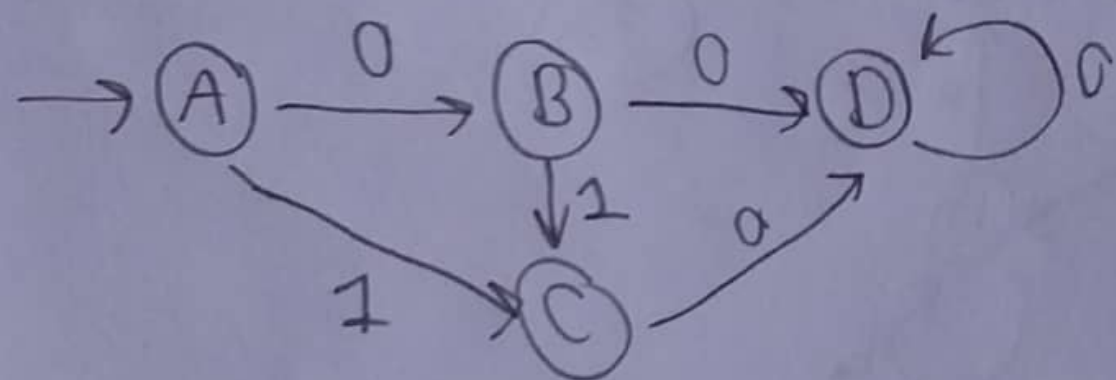


$(1?)? =$



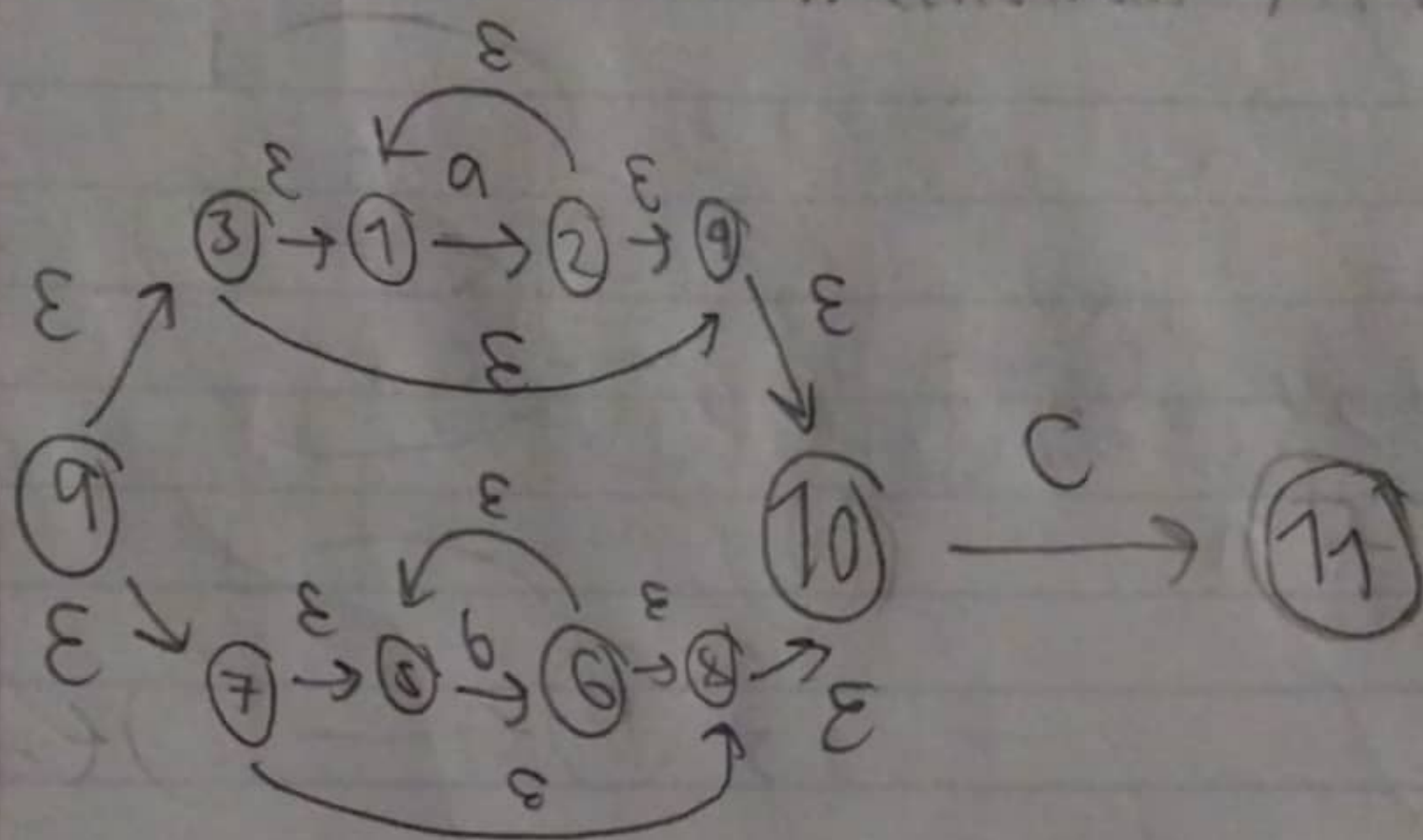
$0?(1?)?0^* \Rightarrow \text{AFD}$

Conjuntos	0	1
$A \rightarrow \{0, 3, 4, 5, 10, 8, 9, 11, 14, 12, 13, 15, 17\}$	B	C
$B \rightarrow \{2, 5, 10, 8, 9, 11, 12, 13, 14, 15, 16, 17\}$	D	C
$C \rightarrow \{7, 11, 14, 15, 17\}$	D	\emptyset
$D \rightarrow \{16, 15, 17\}$	D	\emptyset



$\Rightarrow (a^* | b^*) C$

// Construct AFN



$(a^*|b^*)C \Rightarrow \text{AFD}$

Conjuntos

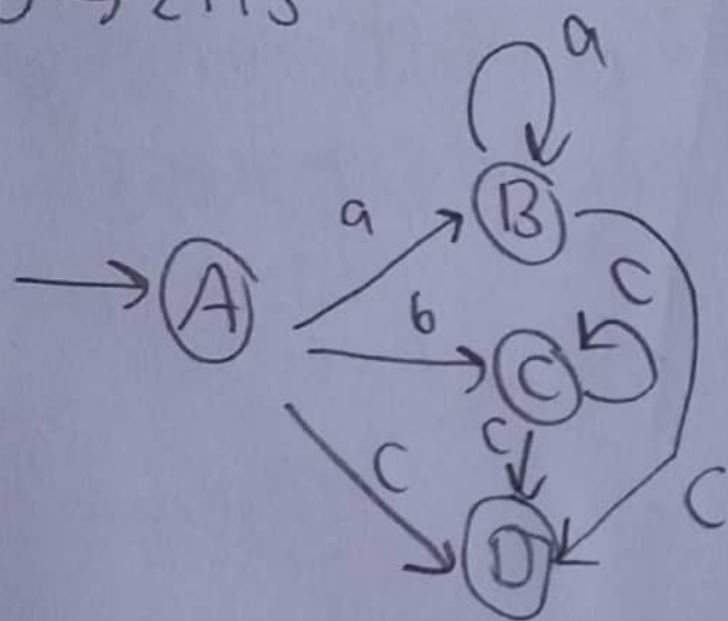
$A \rightarrow \{9, 3, 1, 4, 10, 7, 5, 6, 8\}$

$B \rightarrow \{2, 1, 9, 10\}$

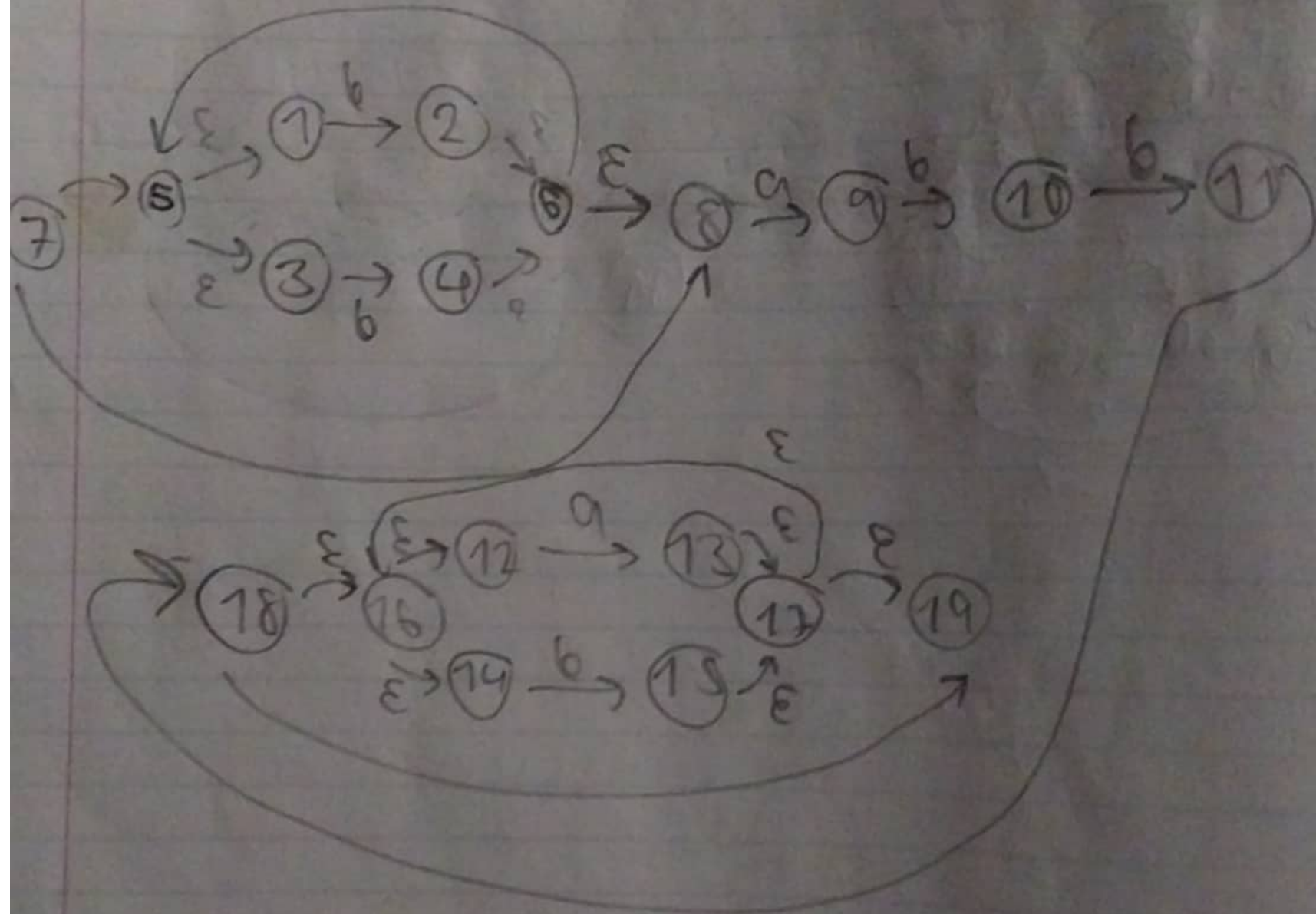
$C \rightarrow \{6, 5, 8, 10\}$

$D \rightarrow \{1, 1\}$

	a	b	c
A	B	C	D
B	B	\emptyset	D
C	\emptyset	C	D
D	\emptyset	\emptyset	\emptyset

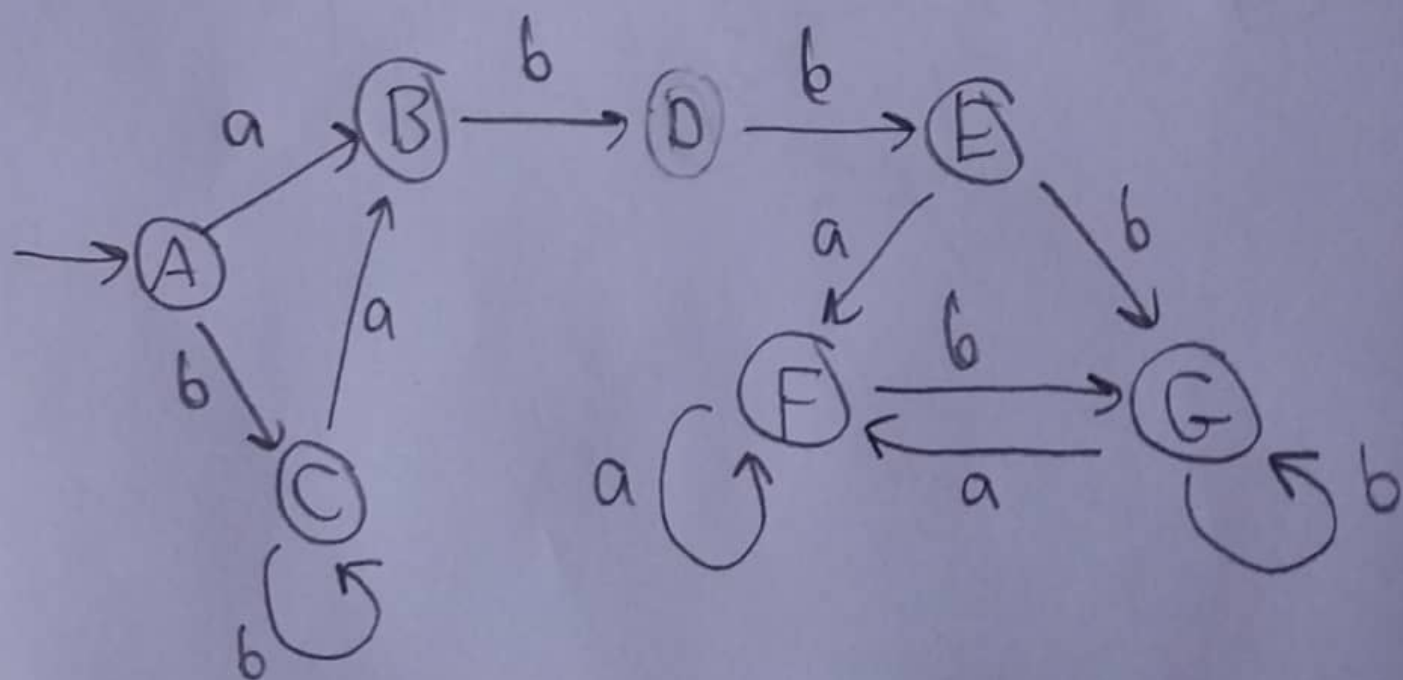


$\Rightarrow (b|b)^*abb(a|b)^*$

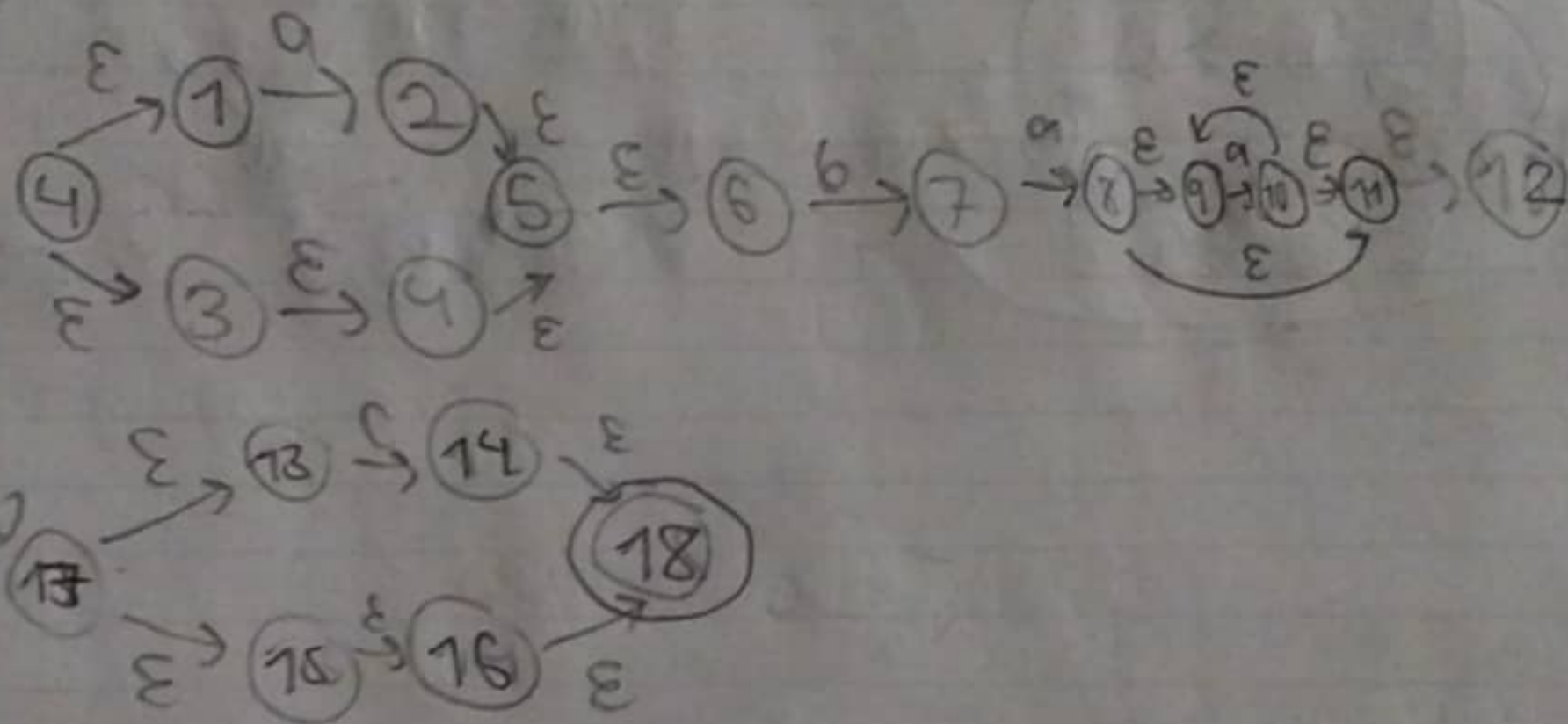


$(b|b)^* abb(a|b)^* \Rightarrow AFD$

Conjuntos	a	b
$A \rightarrow \{7, 8, 5, 1, 3\}$	B	C
$B \rightarrow \{9\}$	\emptyset	D
$C \rightarrow \{2, 4, 6, 8, 5, 1, 3\}$	B	C
$D \rightarrow \{10\}$	\emptyset	E
$E \rightarrow \{11, 18, 16, 12, 14, 15, 17, 19\}$	F	G
$F \rightarrow \{13, 17, 16, 12, 14, 19\}$	F	G
$G \rightarrow \{15, 17, 19, 16, 14, 12\}$	F	G

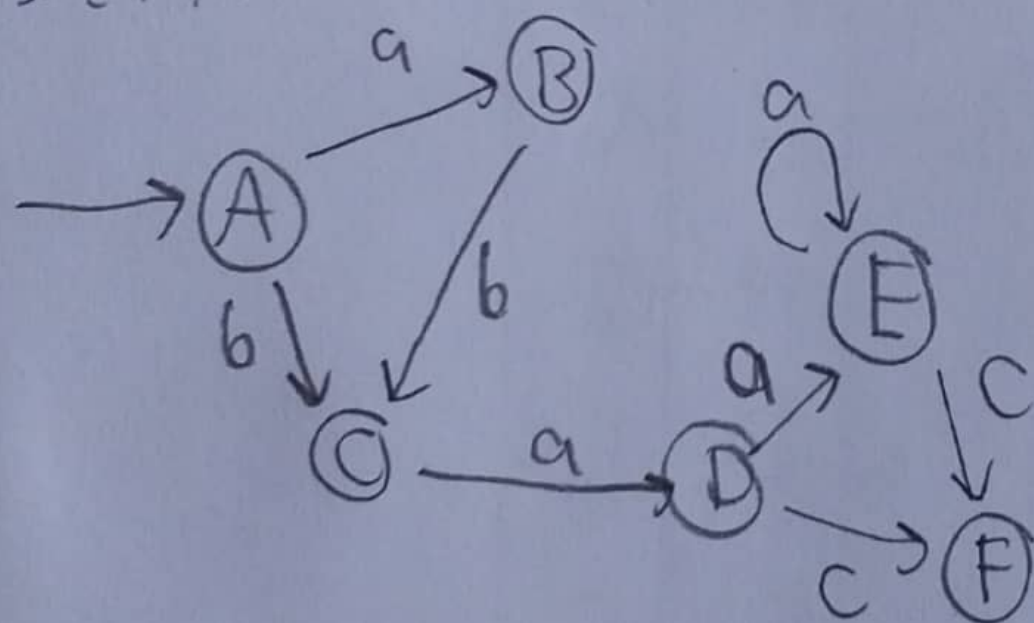


→ $(a | \epsilon) b (a^+) c ?$

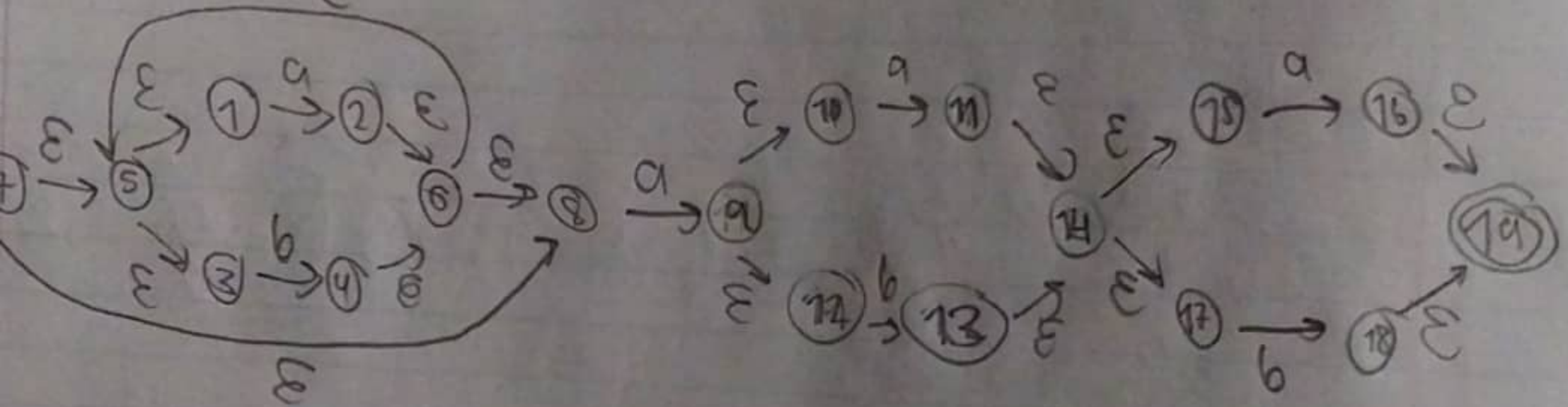


$(a|ε)b(a+c)? \Rightarrow$ AFD

Conjuntos	a	b	c
$A \rightarrow \{4, 1, 3, 4, 5, 6\}$	B	C	\emptyset
$B \rightarrow \{2, 5, 6\}$	\emptyset	C	\emptyset
$C \rightarrow \{7\}$	D	\emptyset	\emptyset
$D \rightarrow \{8, 9, 10, 11, 12, 17, 13, 15\}$	E	\emptyset	F
$E \rightarrow \{10, 9, 11, 12, 17, 13, 15, 16, 18\}$	E	\emptyset	F
$F \rightarrow \{14, 18\}$	\emptyset	\emptyset	\emptyset



$$\Rightarrow (a|b)^* a (a|b) (a|b)$$



$(a|b)^* a(a|b)(a|b) \Rightarrow \text{AFD}$

Conjuntos

$A \rightarrow \{7, 5, 1, 3, 8\}$

$B \rightarrow \{2, 6, 5, 1, 3, 8, 9, 10, 11, 14, 12, 15, 17, 16, 19\}$

$C \rightarrow \{4, 6, 8\}$

$D \rightarrow \{11, 14, 15, 17\}$

$E \rightarrow \{ \}$

$F \rightarrow \{ \}$

$G \rightarrow \{ \}$

$H \rightarrow \{ \}$

$I \rightarrow \{ \}$

	a	b
B	C	
D	E	
B	C	
F	G	
H	I	
F	G	
H	I	
D	E	
B	C	

