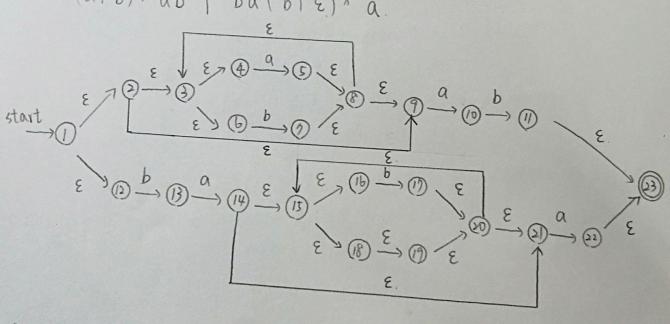


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2. (a1b)* ab | ba(b(2)* a.

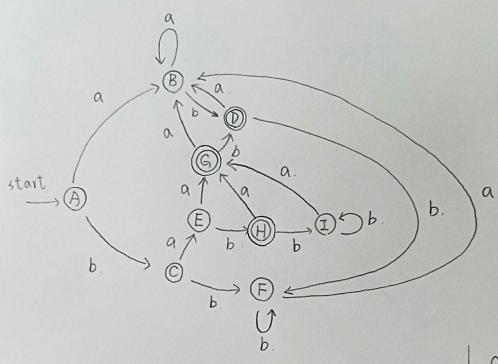


3.

$$\begin{aligned} & \text{ξ-closure} \left(\left\{ 13 \right\} \right) = \left\{ 1, 2, 12, 3, 9, 4, 6 \right\} = A \\ & \text{ξ-closure} \left(\text{move} \left\{ A, \alpha \right\} \right) = \left\{ 2 - \text{closure} \left\{ \left\{ 10, 5 \right\} \right\} \right\} \\ & = \left\{ 10, 5, 8, 3, 9, 4, 6 \right\} = B \\ & \text{ξ-closure} \left(\text{move} \left(A, b \right) \right) = \left\{ 2 - \text{closure} \left\{ \left\{ 13, 7 \right\} \right\} \right\} \\ & = \left\{ 13, 7, 8, 3, 9, 4, 6 \right\} = C \\ & \text{ξ-closure} \left(\text{move} \left(B, \alpha \right) \right) = \left\{ 2 - \text{closure} \left\{ \left\{ 5, 10 \right\} \right\} \right\} \\ & = \left\{ 10, 5, 8, 3, 9, 4, 6 \right\} = B \end{aligned}$$

```
&-closure (move(B,b)) = &-dosure ({7,113)
                      = {7,11,8,23,3,9,4,6} = D
&-closure (move (C,a)) = &-closure ( {5.10.14})
                     = \\[ \frac{1}{5.10.14.8.15.21.3.9.16.18.4.6.19.20 \} = \[ \]
&- closure (move (c, b)) = &- closure ( { 7})
                      = { 7,8,3,9,4,6} = F
&-closure (move (D,a)) = &-dosure ({ 5,10})
                      = {10,5,8,3,9,4,6} = B
E-closure (move (D,b)) = E-closure ( { ) })
                     = {7,8,3,9,4,6} = F
&-closure (move (E, a)) = &- closure ( { 5, 10, 22})
                      = {5,10,22,8,23,3,9,4,6} = G
&- closure (move (E, b)) = &- closure ( { 7, 11, 17})
                       = {7,11,17,8,23,20,3,9,15,21,4,6,16,18,19} = H
&-closure (move (F, a)) = &-closure ( { 5, 10})
                      = {10, 5, 8, 3, 9, 4, 6] = B
&- closure (move (F.b)) = &- closure ( { ) })
                        = { 1,8,3,9,4,6} = F
&-closure (move (G, a)) = &-closure ( { 5.10})
                        = { 10,5,8,3,9,4,6} = B
&-closure (move (G,b)) = &-closure ( {7, 113)
                         = {7.11.8, 23.3.9.4.6} = D.
 &- closure (move (H.a)) = &- closure ( 5, 10,22))
                         = [5,10,22,8,23,3,9,4,6] = G.
 &- closure (move (H.b)) = & - closure ( { 7, 173)
                          = {7.17.8. x0.3.9.15.21.4.6.16.18.199=I
```

$$\begin{aligned} & \text{ξ-closure (move (I, a)) = ξ-closure (ξ, 10, 22$)} \\ & = $\{\xi, 10, 22, 8, 23, 3, 9, 4, 6\} = G. \\ & \text{ξ-closure (move (I, b)) = ξ-closure (ξ, 10, 22$)} \\ & = $\{\eta, 10, 8, 20, 3, 9, 15, 21, 4, 6, 16, 18, 19$\} = I \end{aligned}$$



	U.	a	b	
	A= {1,2,3,4,6,9,12}	В	C	
	B= {3.4.5.6.8.9.10}	В	D	
	C= {3.4.6.7.8.9.13}	E	F	
٧	D={3.4.6.7.8.9.11.23}	В	F	
	E= {3.4,5,6.8,9,10,14,15,16,18,19.20,21}	G	H	
	F={3.4.6.1.8.9}	В	F	
V	G= \ 3.4.5.6.8.9.10.22.23 }	B	P	
٧	H= {3.4.6.7.8,9.11.15.16.17.18.19.20.21.23}	G	I	
	I={3.4.6.7.8.9.15.16.17.18.19.20.213	G	I	