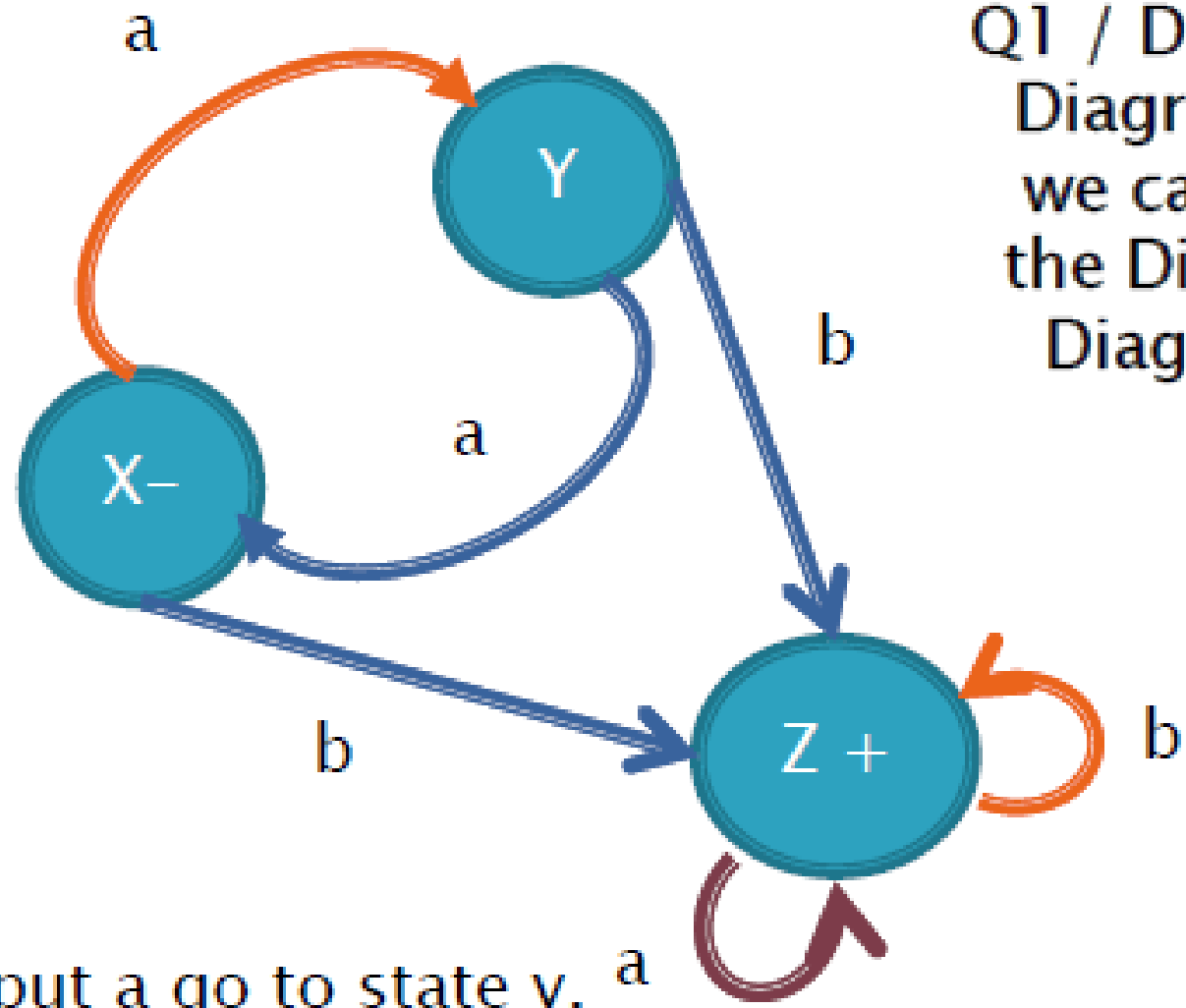
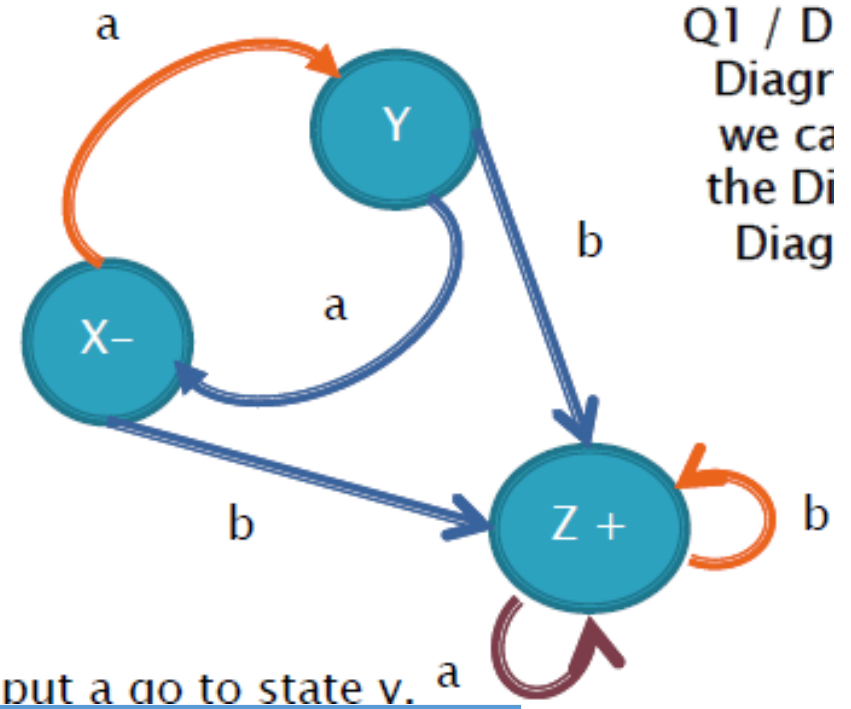


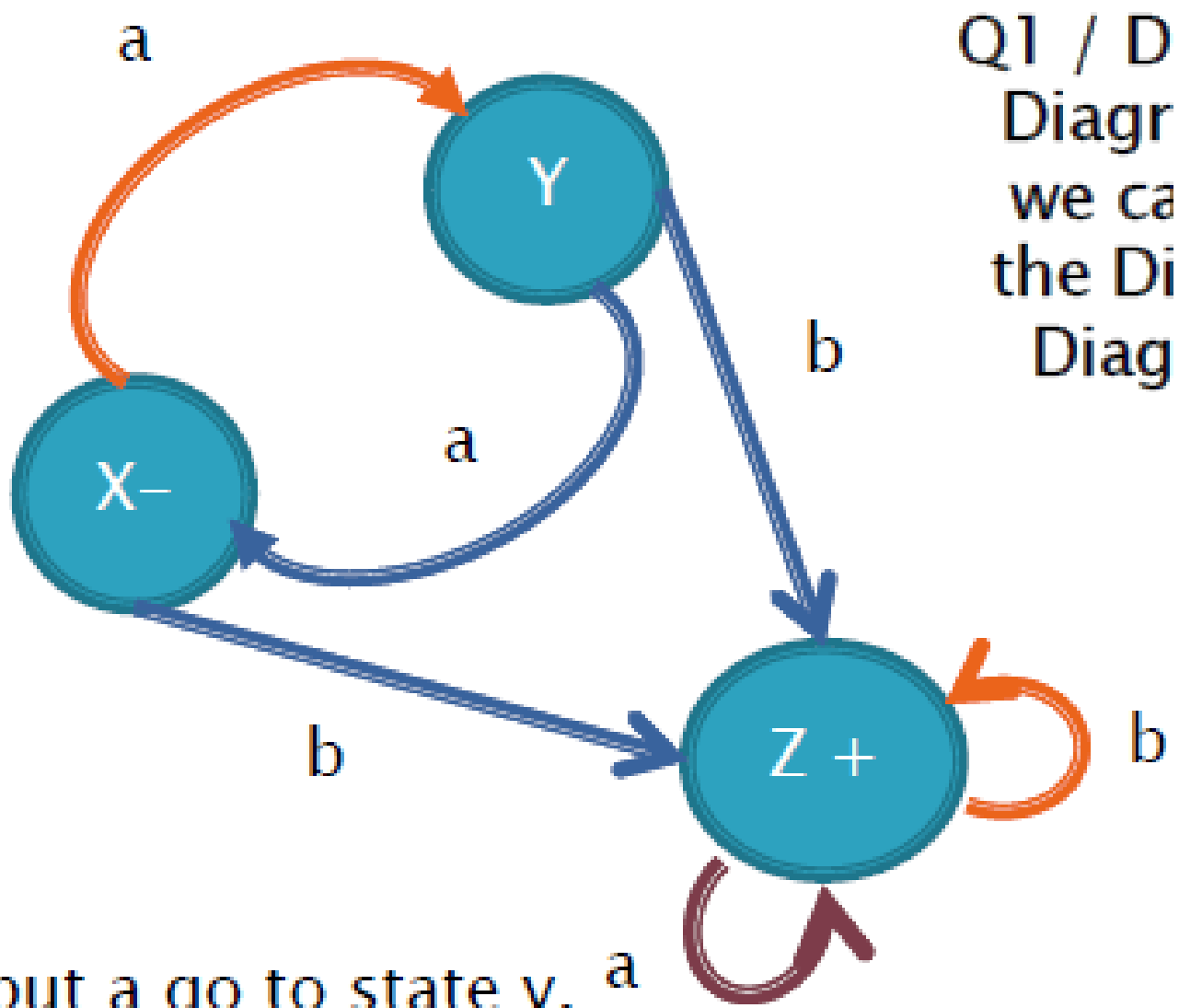
abba
babaa
abbaa



1. From state x and input a go to state y.
2. From state x and input b go to state z.
3. From state y and input a go to state x.
4. From state y and input b go to state z.
5. From state z and any input stay at state z.



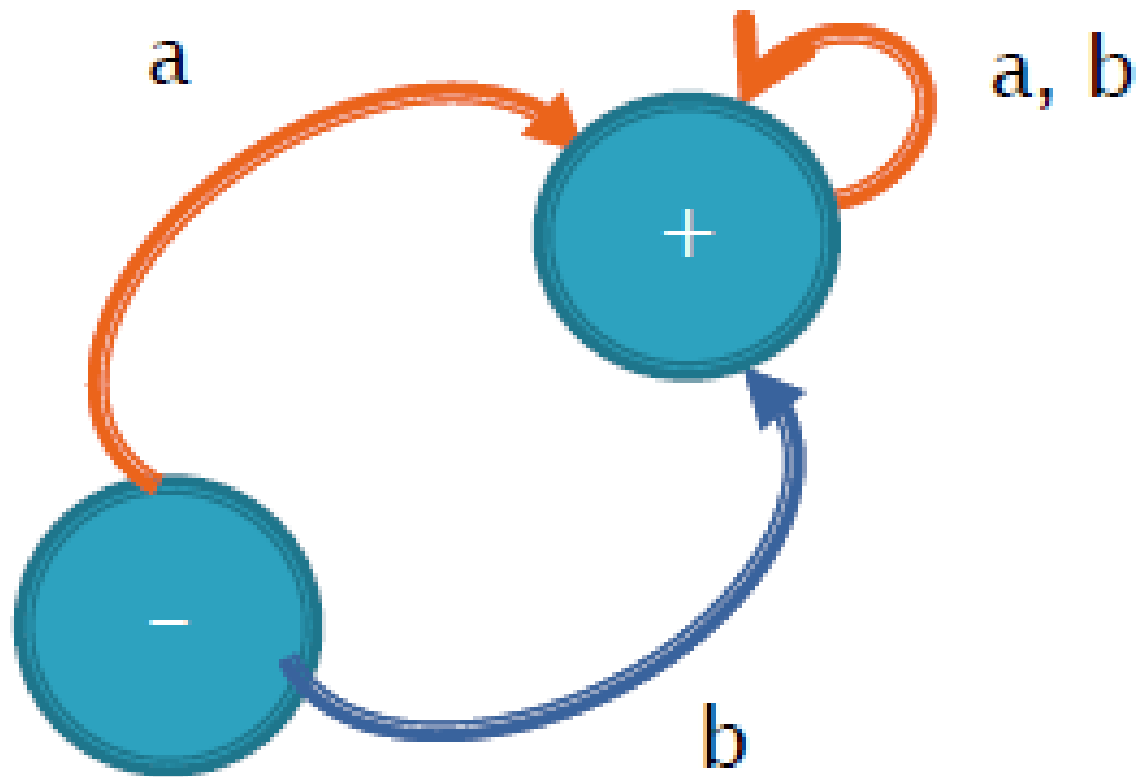
| Previous state | a | b |
|----------------|---|---|
| x | y | z |
| y | x | z |
| z | z | z |



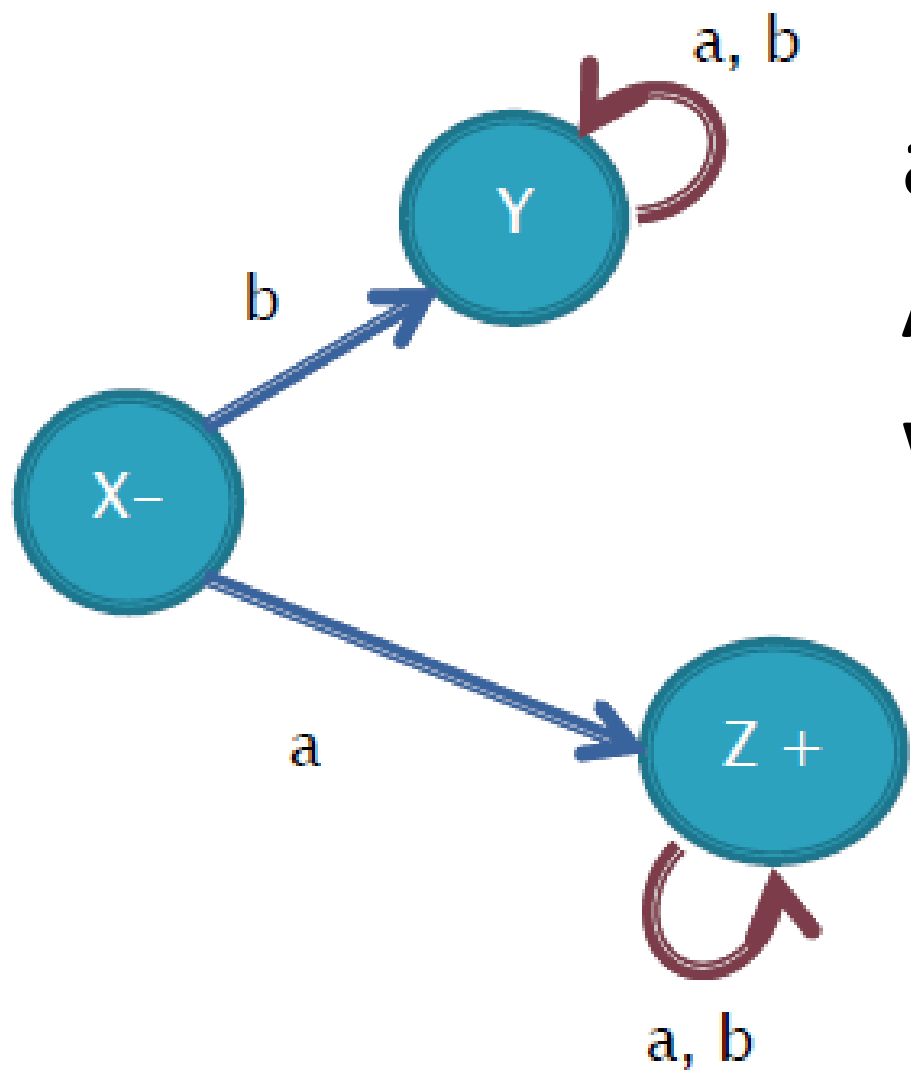
Q1 / D
Diagr
we ca
the Di
Diag

b
ab
aab
aaab

and input a go to state v. a

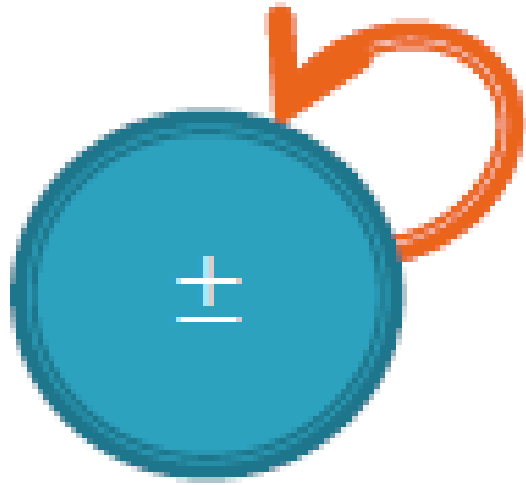


$a(a+b)^*$
 $b(a+b)^*$



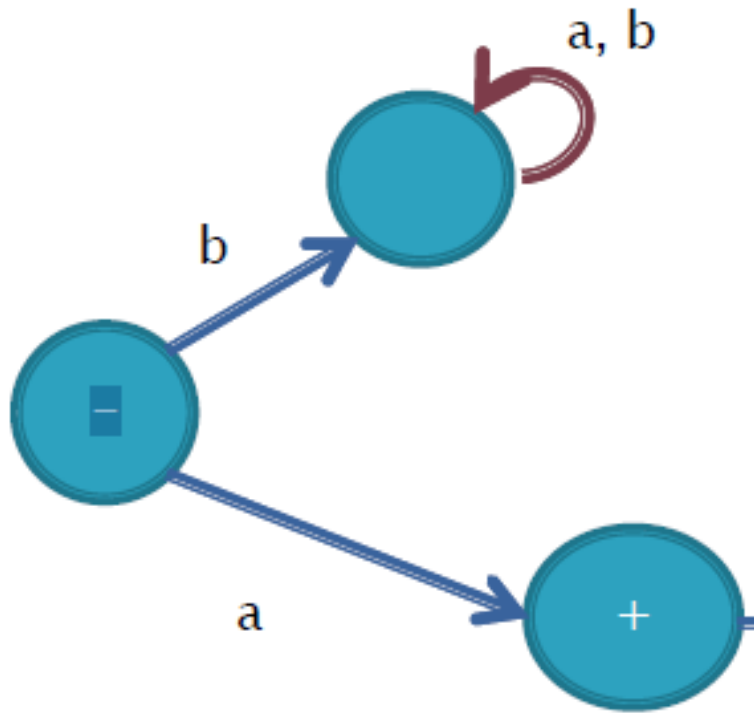
$a(a+b)^*$

All words that start with a is accepted



a, b

$(a+b)^*$

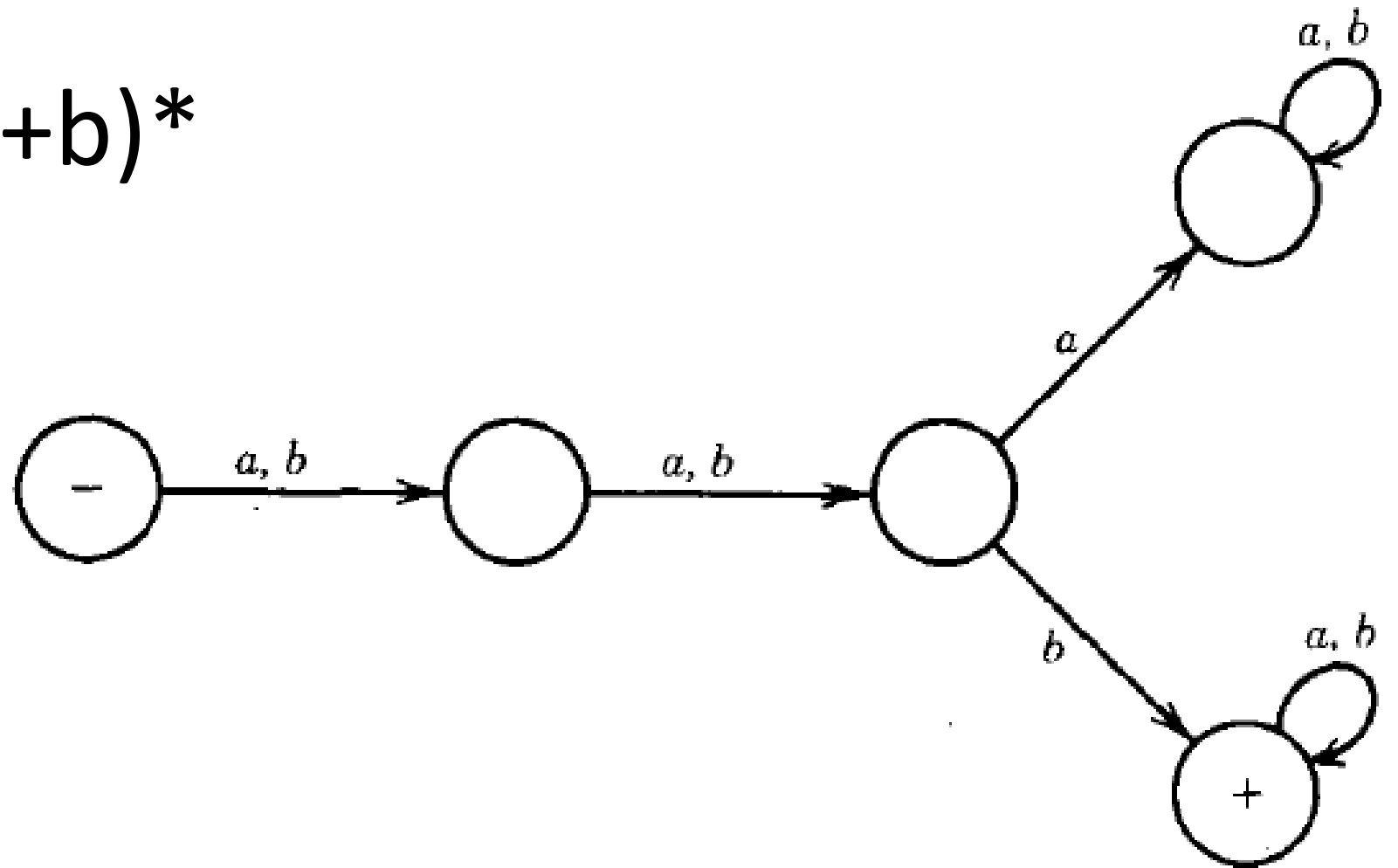


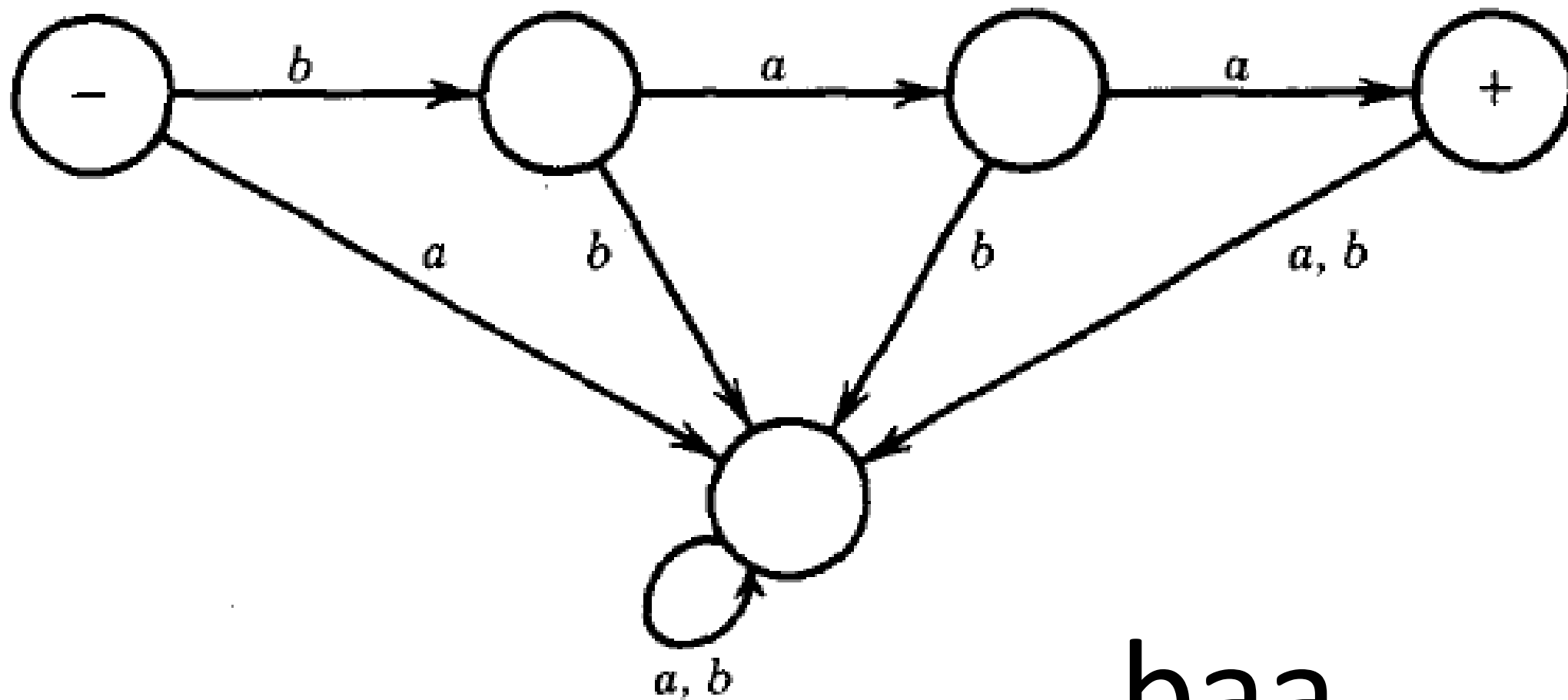
$b(a+b)^*$

a

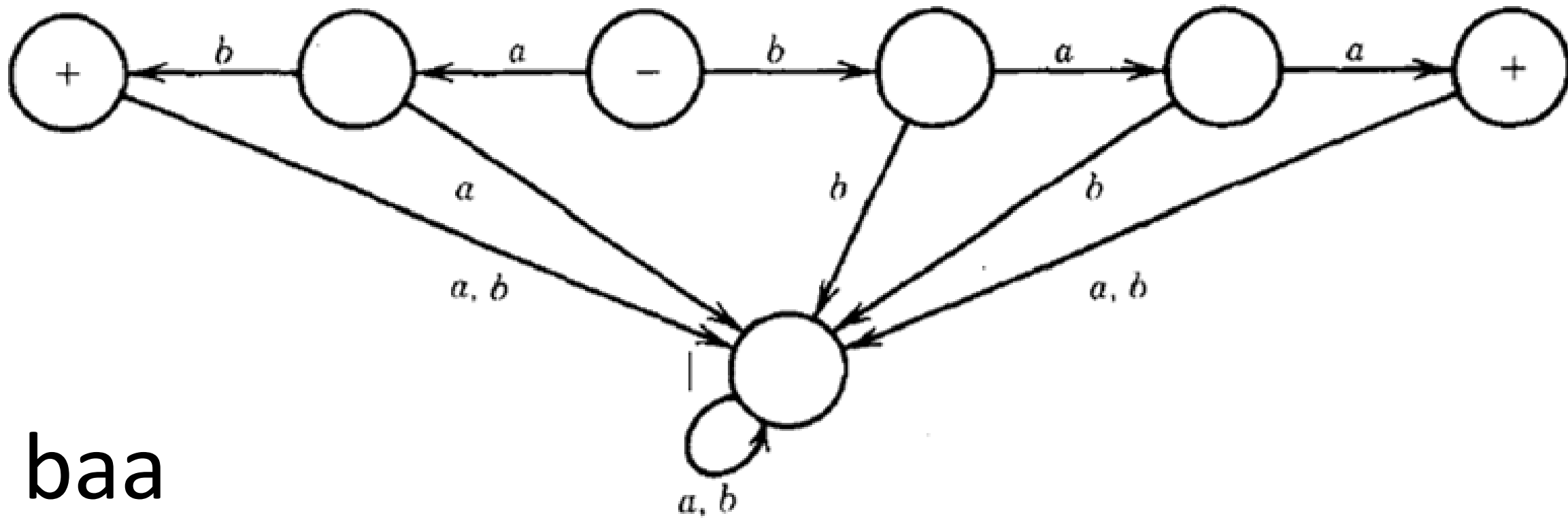
A

$(a+b)(a+b)b(a+b)^*$





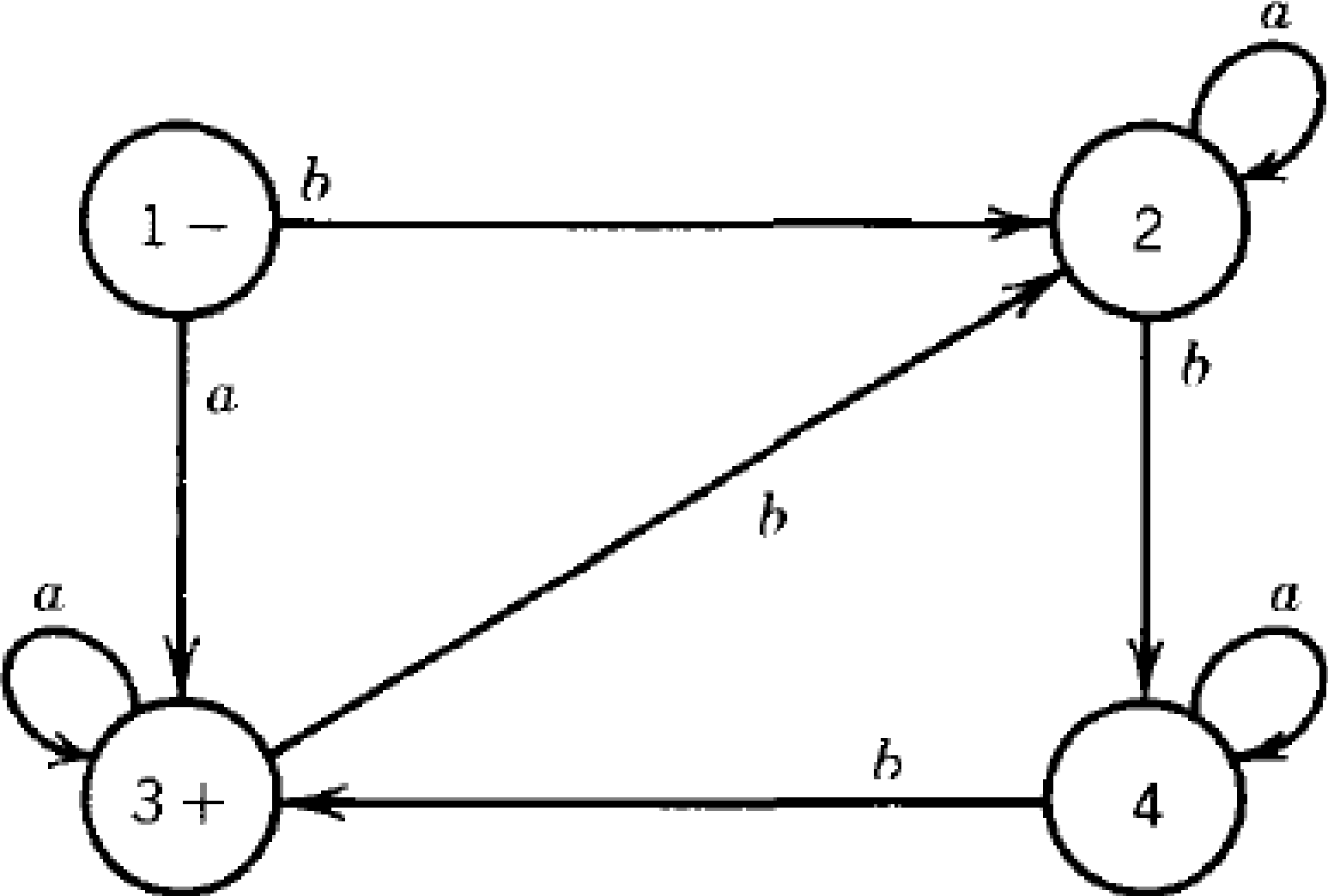
baa



baa

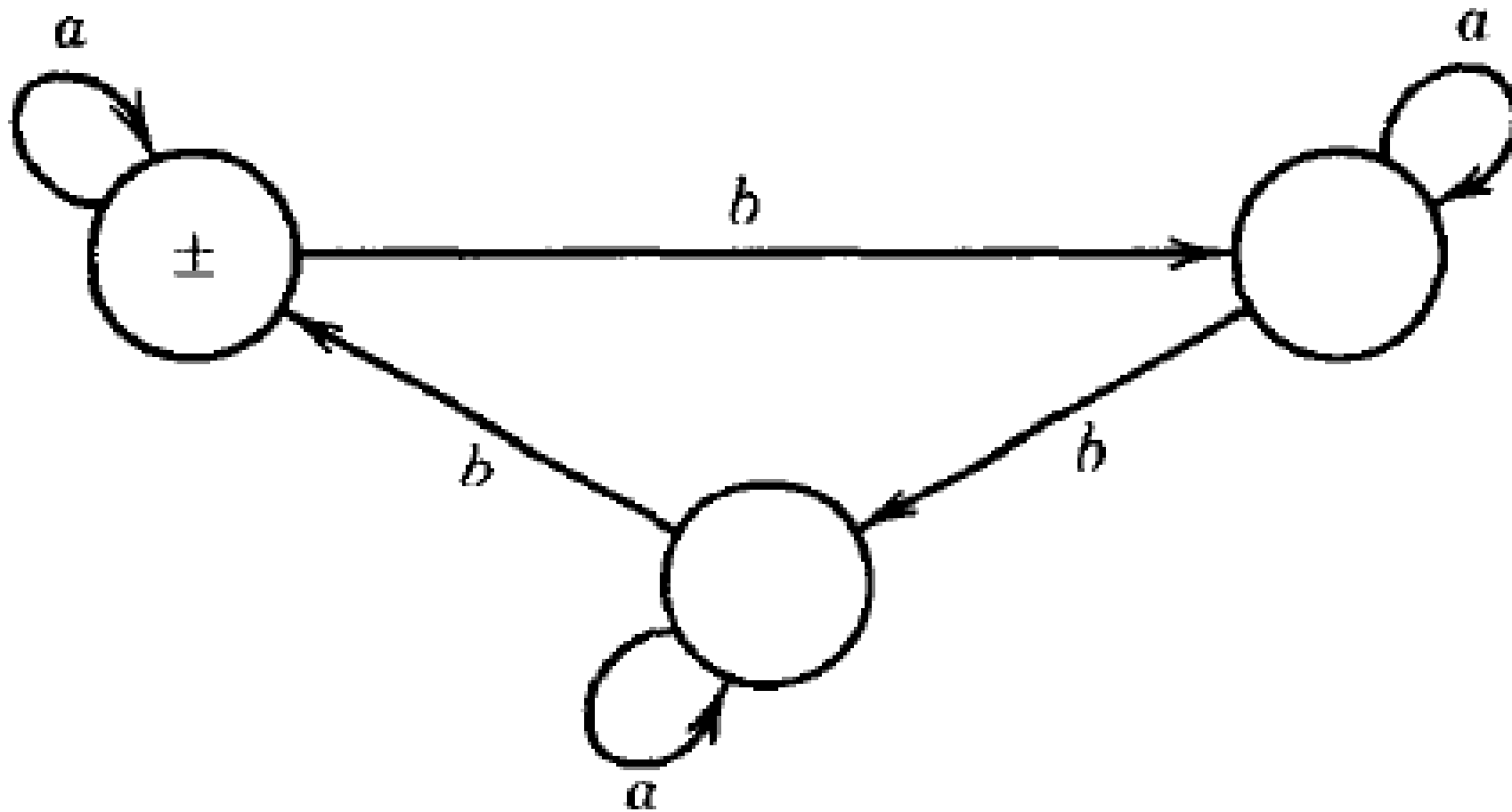
ab

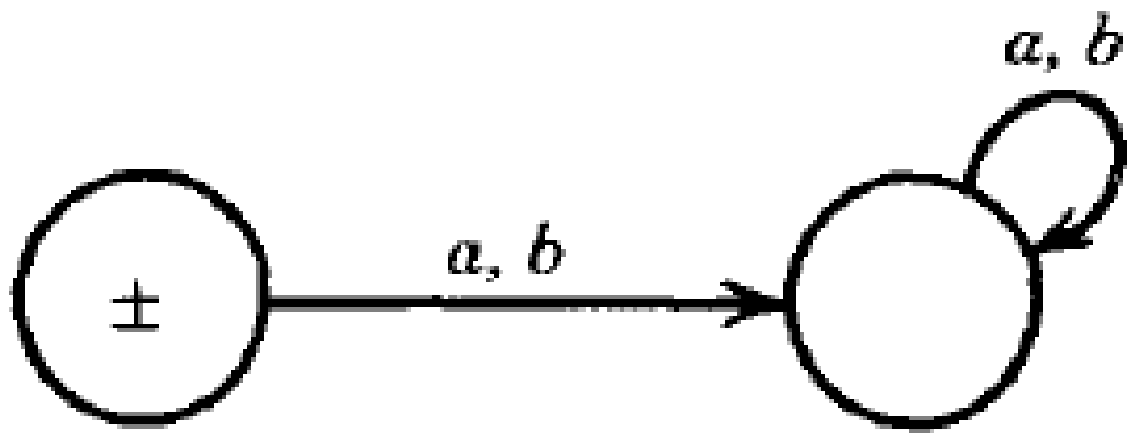
$ba^*ba^*ba^*ba^*ba^*ba^*$



a^*

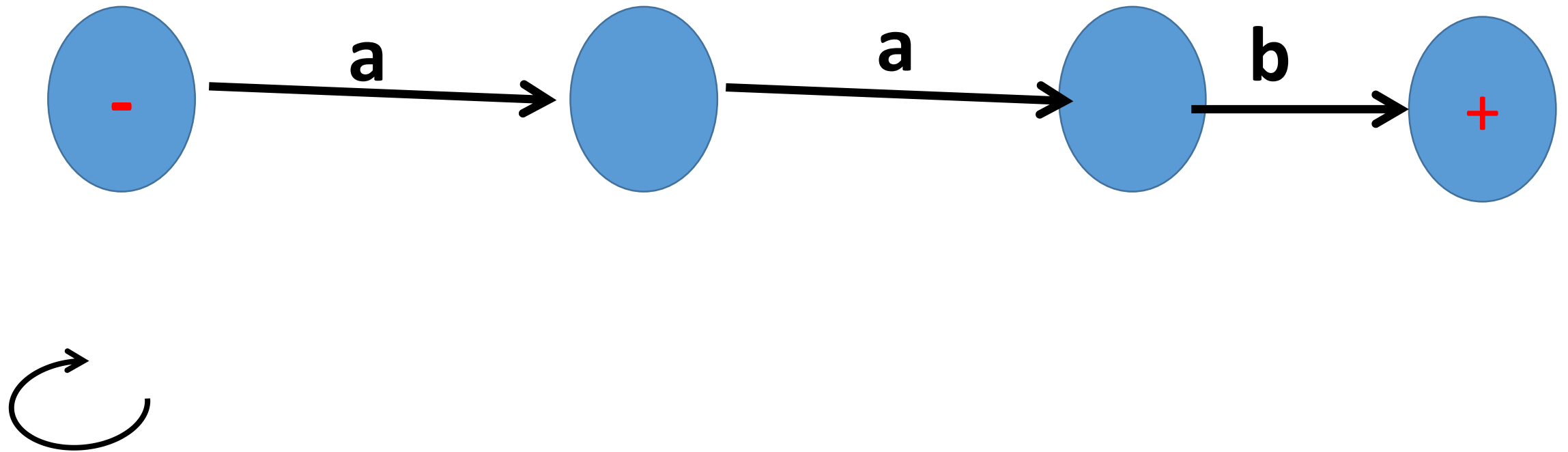
$a^*ba^*ba^*ba^*$



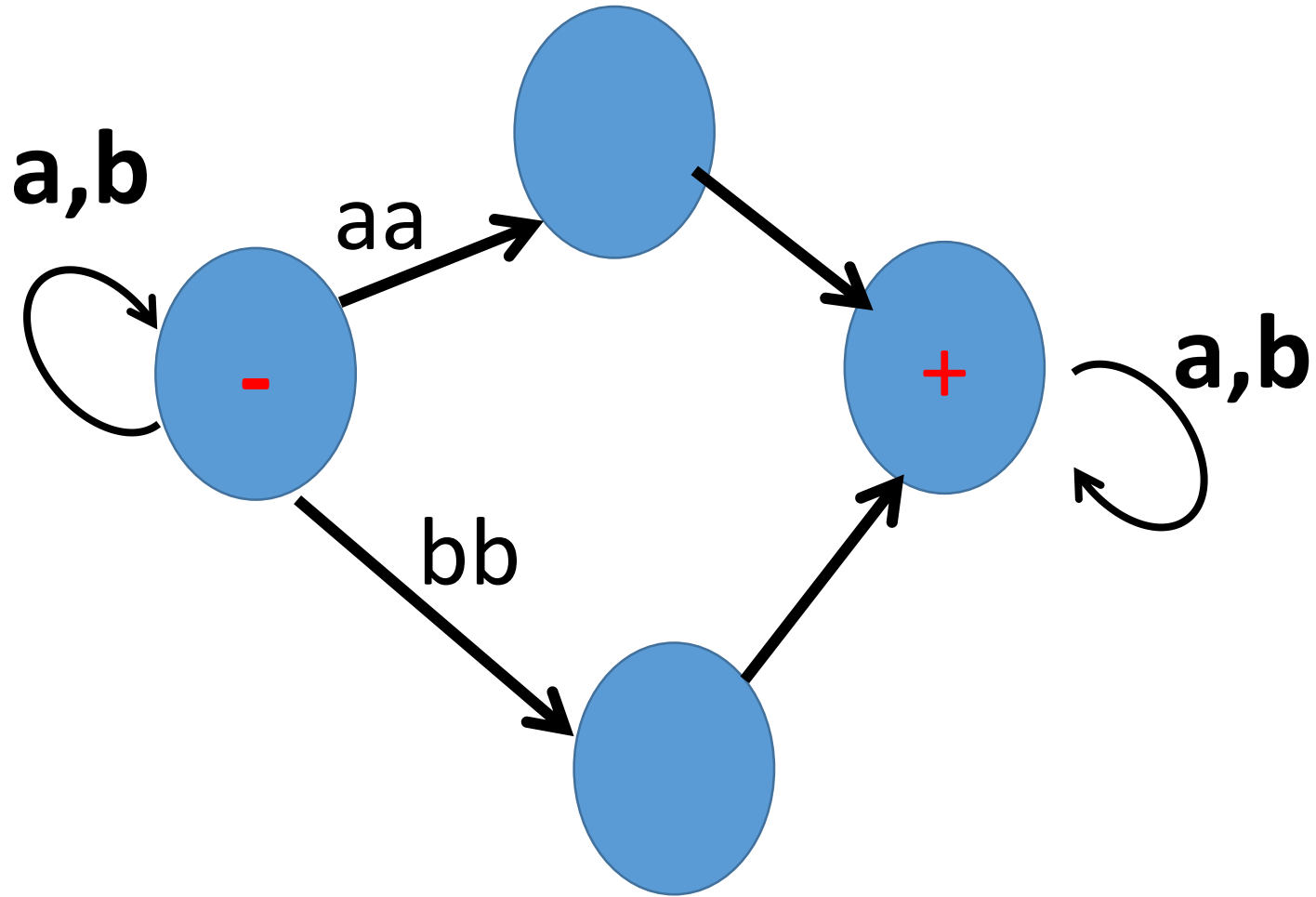


A

aab



$(a + b)^*(aa + bb)(a + b)^*$



$b^*a(a+b)^*(ab)(b^*)$