Kuliah Online, E-learning, Elearning, Kulon, MOOCS, Daring, Undip, Universitas Diponegoro, Kuliah Daring, LP2MP, UM, Ujian Mandiri, UM Undip

Started on	Wednesday, 9 March 2022, 7:48 AM
State	Finished
Completed on	Wednesday, 9 March 2022, 8:27 AM
Time taken	38 mins 56 secs

Question 1

Complete

Marked out of 1.00

Obtain the regular expressions for the languages given by

L = {a, bb, aa, abb, ba, bbb, ...}

Note:
use no space

Answer: (a+b)*.(a+b.b)

Question 2

Complete

Marked out of 1.00

Obtain the regular expressions for the languages given by

L = { $a^{2n}b^{2m+1}$ | n ≥ 0, m ≥ 0}

Note:
use no space

Answer: (a.a)*.(b.b)*.b

Question 3

Complete

Marked out of 1.00

Give Regular expressions for the following on ∑ = {a, b, c}

"All strings in which all runs of a's have lengths that are multiples of three"

Note:
use no space

Answer: (b+c)*.((a.a.a).(b+c)*)*

Question 4

Complete

Marked out of 1.00

Find the regular expressions for the languages defined by

$$L = \{ab^n w : n \geq 3, w \in \{a, b\}^+\}$$

Note:
use no space

Answer: a.b.b.b.b*.(a+b).(a+b)*

Question 5

Complete

Marked out of 1.00

Find the regular expressions for the languages defined by

$$L = \{w : w \in \{a, b\}^*, |w| mod 3 = 0\}$$

Note:
use no space

Answer: ((a+b).(a+b).(a+b)))*

Question 6

Complete

Marked out of 1.00

Find regular expressions over ∑ = {a, b} for the language defined as follows:

$L = \{a^m b^m : m > 0\}$

Note:
use no space

Answer: a*.b*

Question 7

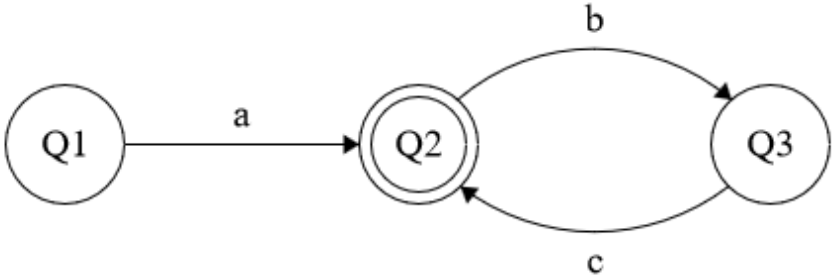
Complete

Marked out of 1.00

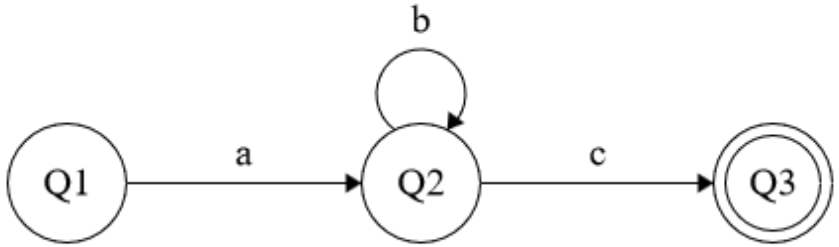
Temukan sebuah NFA yang menerima L(r), dimana r = (a+b)c.

Select one:

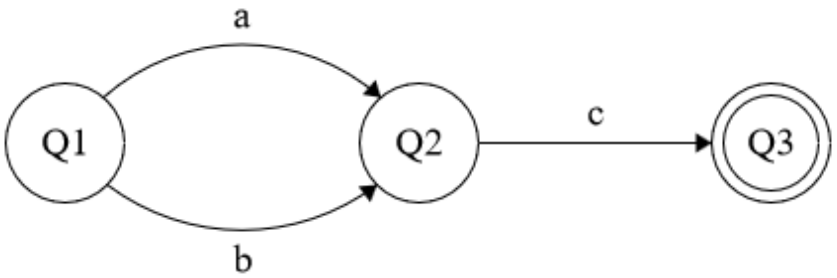
a.



b.



c.



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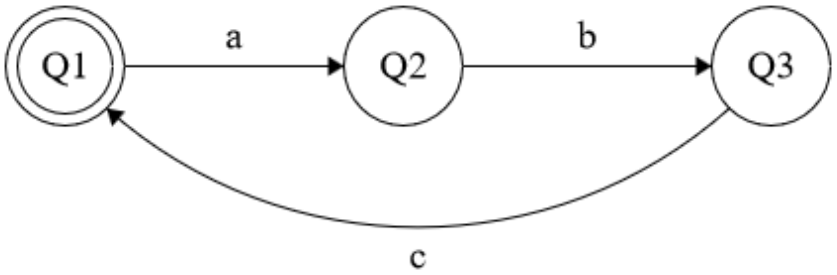

Q1
a
Q2
b
Q3
c

Question 8

Complete

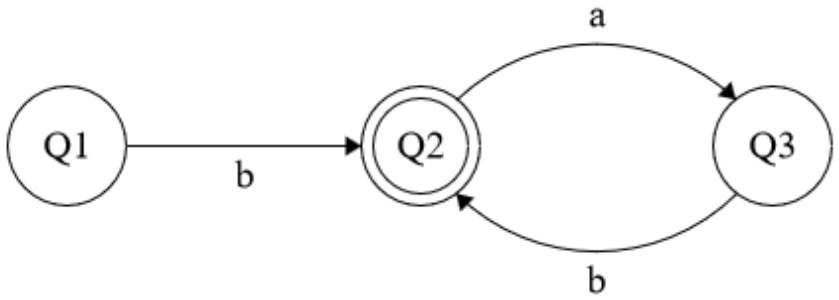
Marked out of 1.00

Temukan sebuah NFA yang menerima L(r), dimana r = (ba*b).

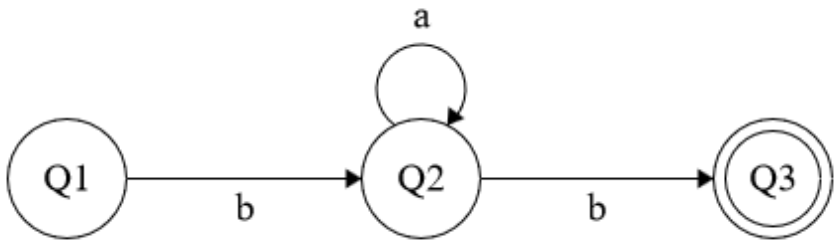
Select one:

a.

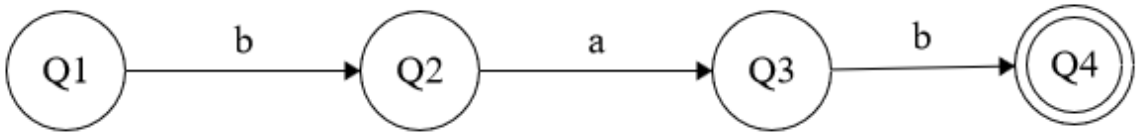
b.



c.



d.


Q1
b
Q2
a
Q3
b
Q4

Question 9

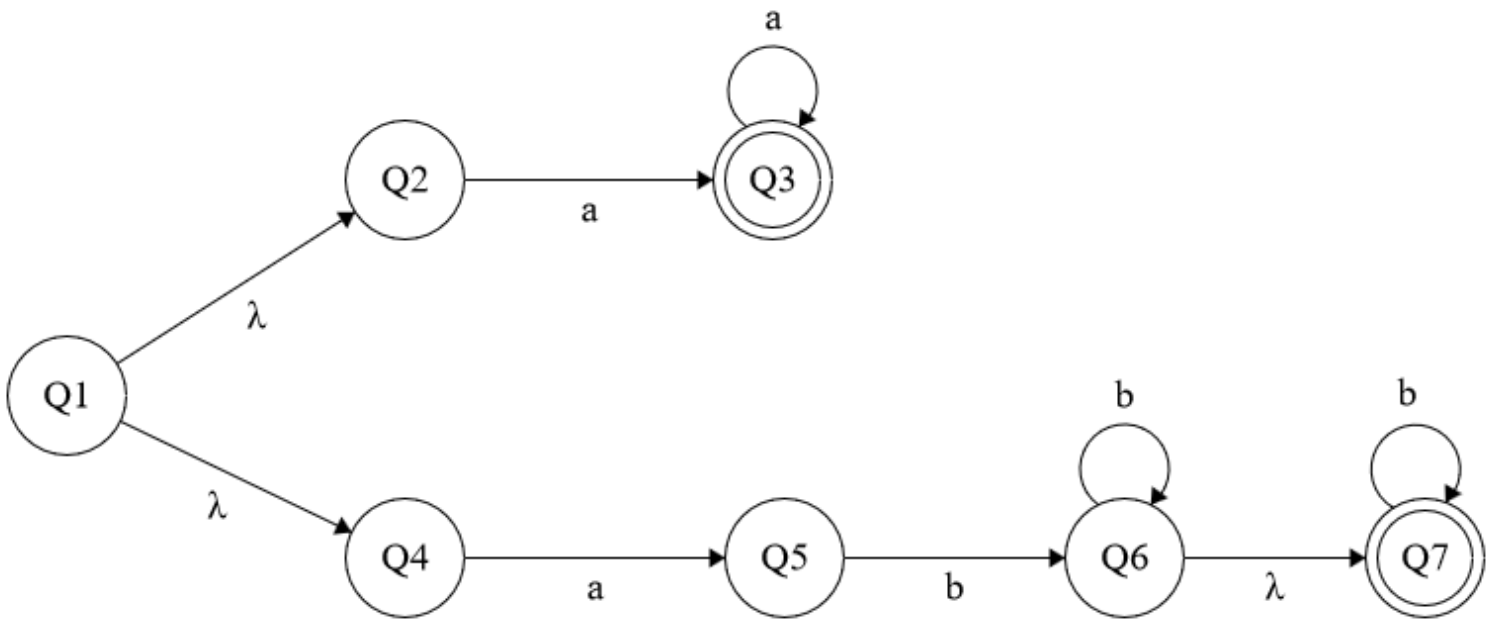
Complete

Marked out of 1.00

Temukan sebuah NFA yang menerima L(r), dimana r = aa* + aba*b*.

Select one:

a.



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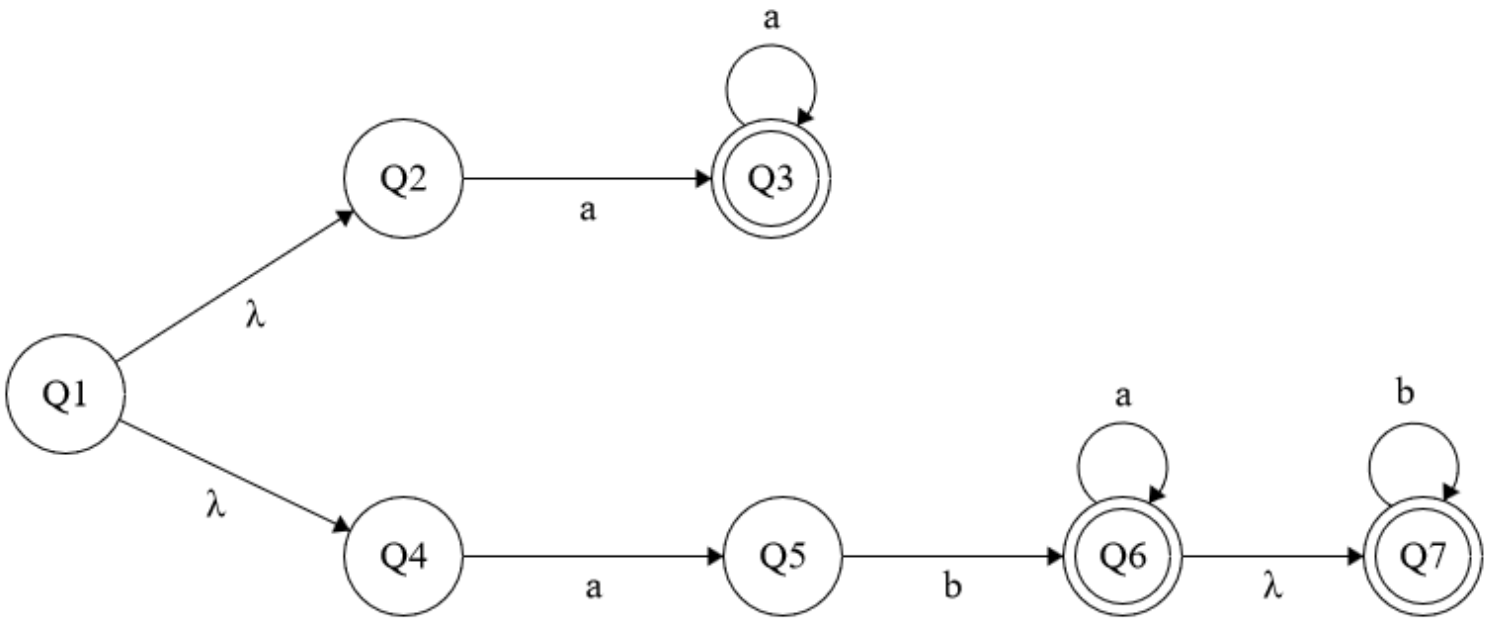

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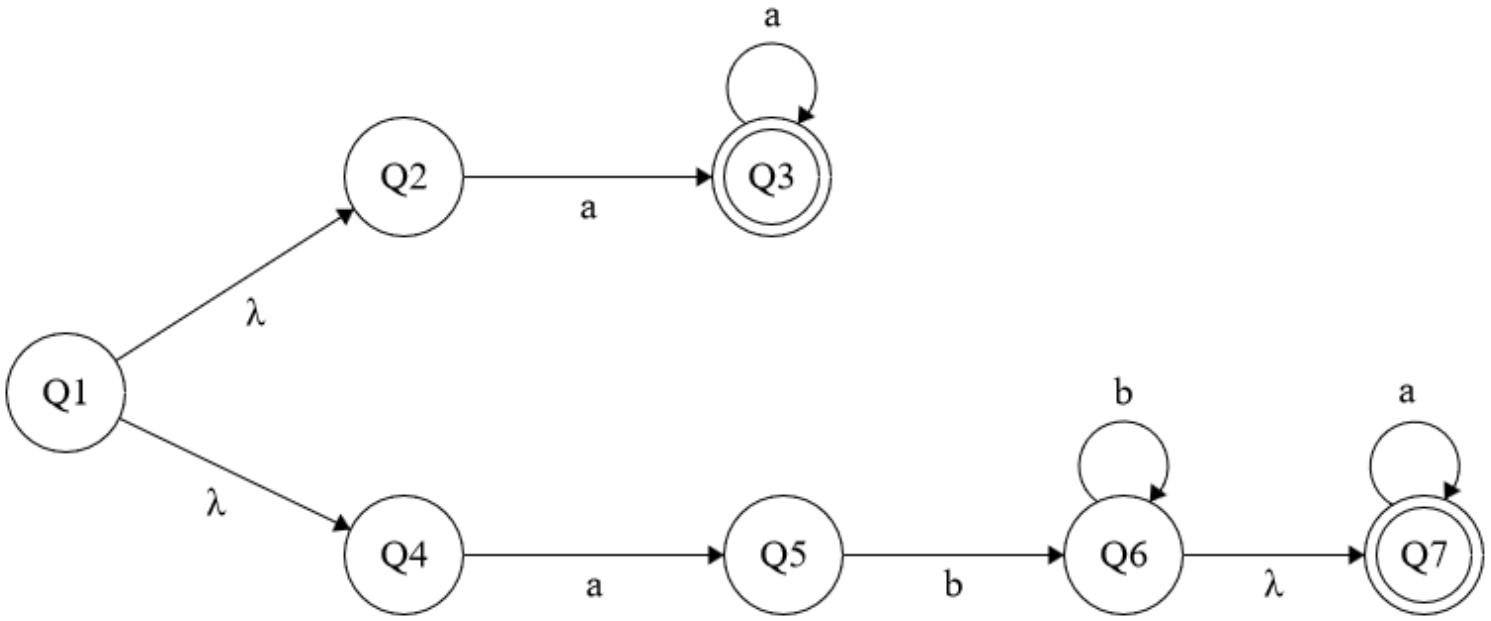
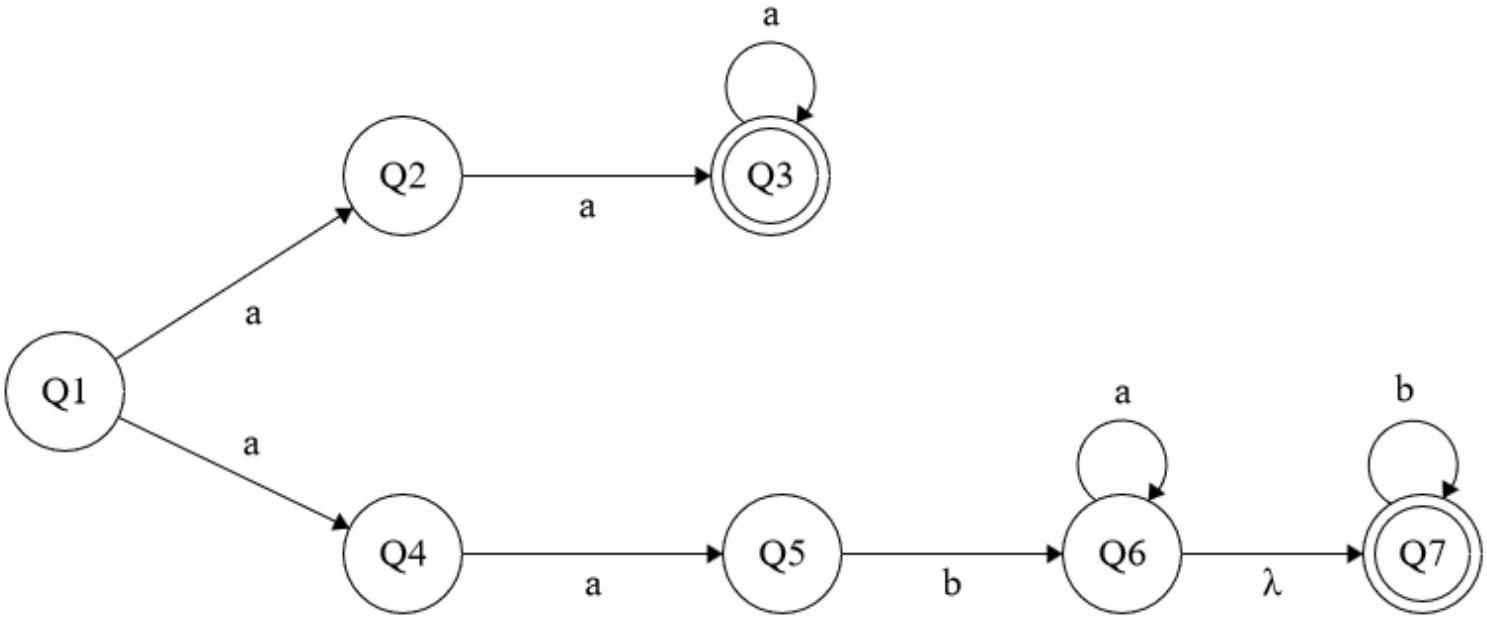


d.


a
Q2
Q3
a
a
Q1
a
a
b
Q4
Q5
Q6
Q7
a
b
λ

Question 10

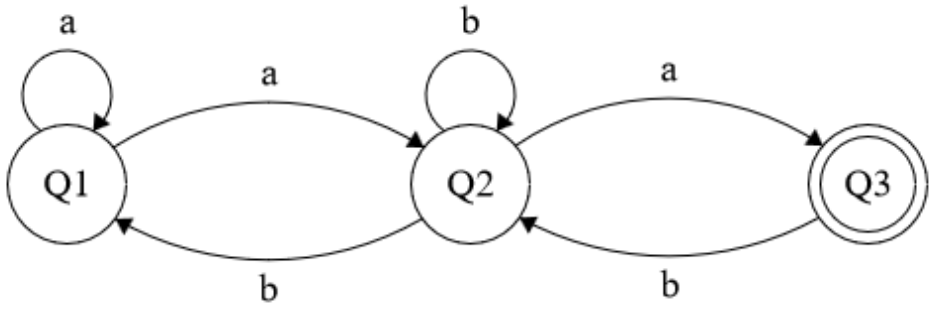
Complete

Marked out of 1.00

Temukan NFA yang menerima L(r), dimana r = (a+a(b+ab)*b)*a(b+ab)*a.

Select one:

a.



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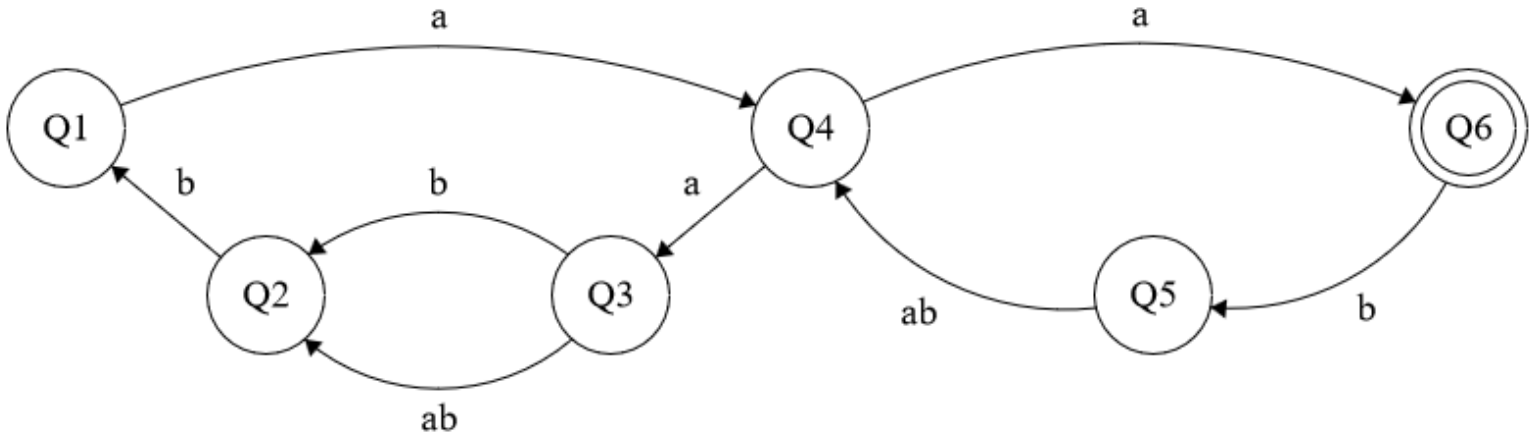

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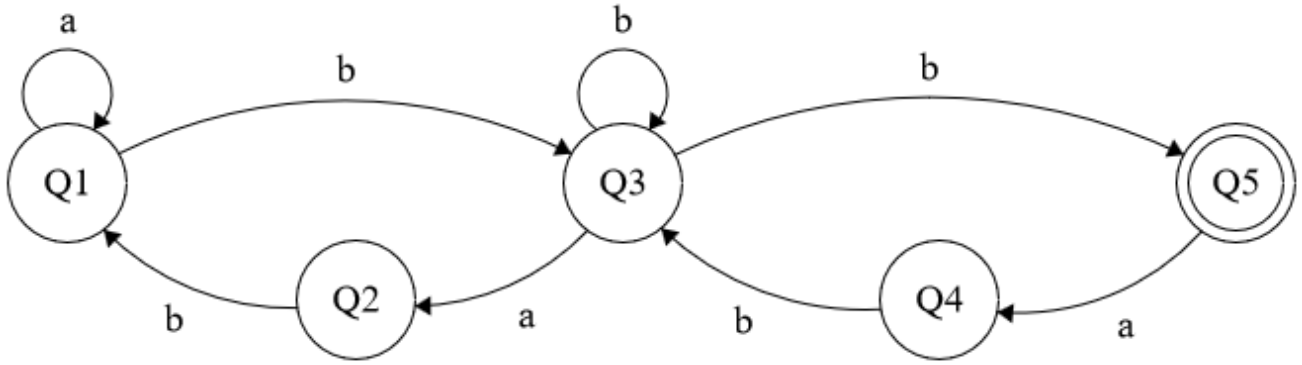
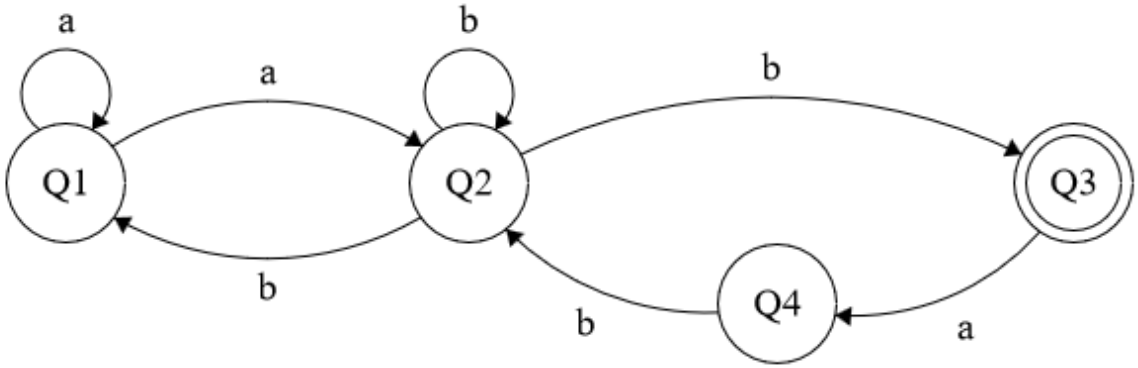


d.



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