

# Activity 3-2 - Finite-State Automata Definition Practice

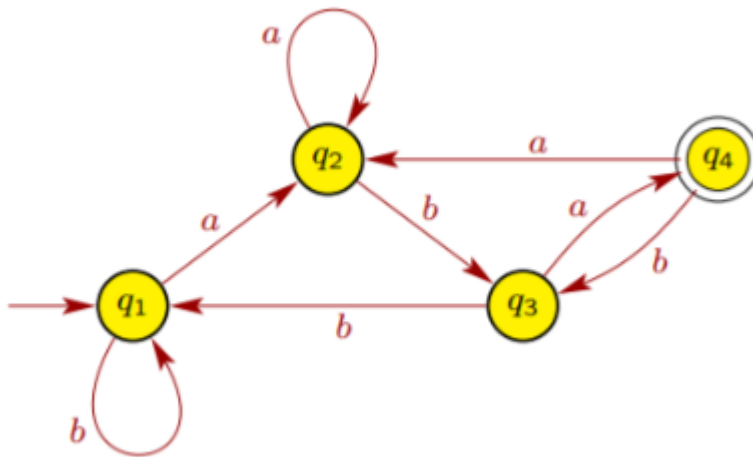
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5 points each

## What to Do

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Given by the following automata:



1. What are states ( $Q$ )?

YOUR ANSWER:

$Q = ?$

2. What is the alphabet ( $\Sigma$ )?

YOUR ANSWER:

$\Sigma = ?$

3. What is the start state ( $q_0$ )?

YOUR ANSWER:

$q_0 = ?$

4. What are the final states ( $F$ )?

YOUR ANSWER:

$F = ?$

5. Write all transitions in this notation:

$$T(state, input) \rightarrow nextstate$$

YOUR ANSWER:

$$T(?, ?) \rightarrow ?$$

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6. Create the transition table.

## When to Submit It

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Before next week class

## Advice

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Check the examples in lesson 4!