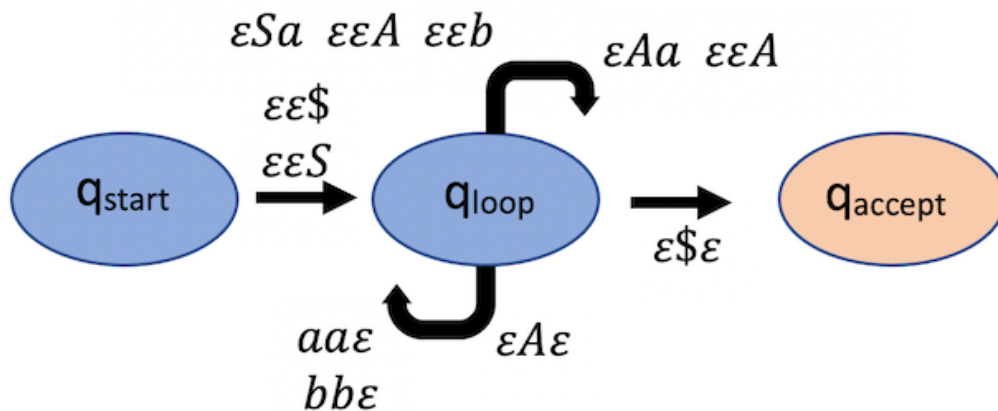


1. Consider the PDA below that recognizes strings generated by the CFG G with rules $S \rightarrow bAa$; $A \rightarrow Aa | \epsilon$.

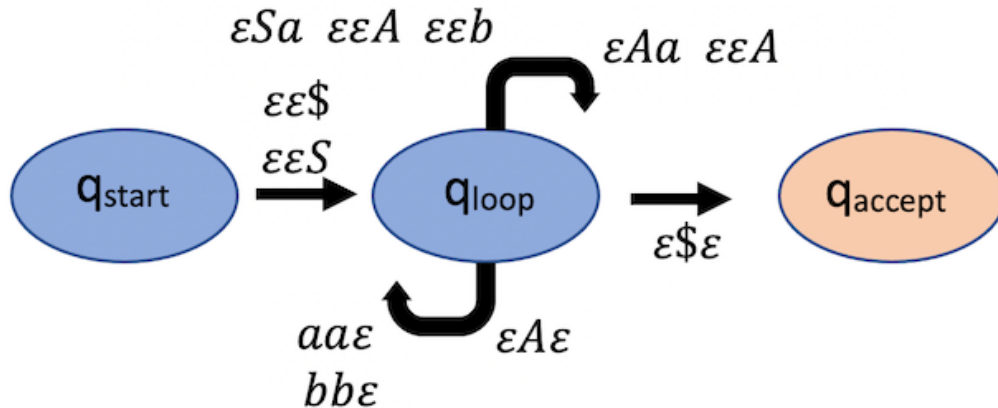


Which of the following is the correct list of stack elements (leftmost is top) when the **b** is matched from the input **baa**.

(3 points)

- ✓ 1. b A a \$
- 2. \$ a b A
- 3. A a b \$
- 4. b a A \$

2. Consider the PDA below that recognizes strings generated by the CFG G with rules $S \rightarrow bAa$; $A \rightarrow Aa | \epsilon$.

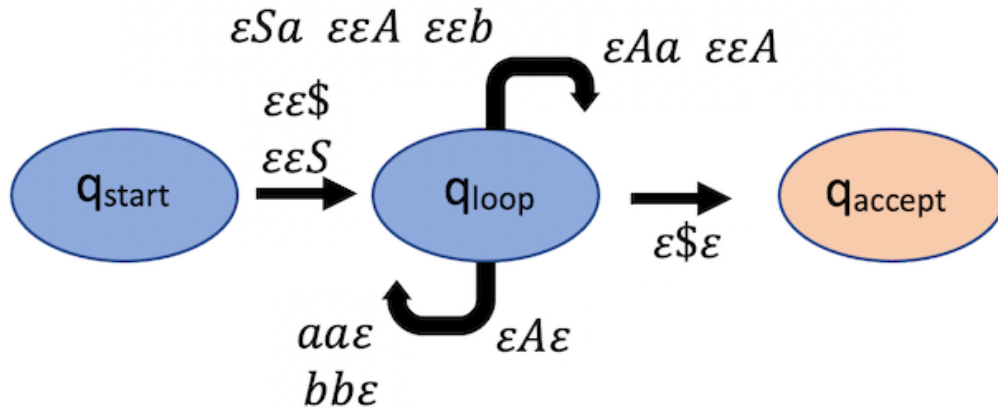


Which of the following is the correct list of stack elements (leftmost is top) when the first **a** is matched from the input **baa**.

(3 points)

1. b A a \$
2. a a A \$
3. a A A \$
- ✓ 4. a a \$

3. Consider the PDA below that recognizes strings generated by the CFG G with rules $S \rightarrow bAa$; $A \rightarrow Aa | \epsilon$.



Which of the following is the correct list of stack elements (leftmost is top) when the second **a** is matched from the input **baa**.

(3 points)

1. b a a \$
- ✓ 2. a \$
3. A a \$
4. a A \$