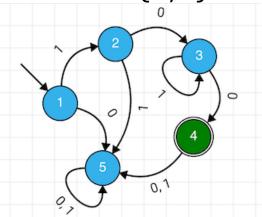
1. Which of the following regular expressions describes the language recognized by the DFA below? Note: $\Sigma = \{0,1\}$.



(3 points)

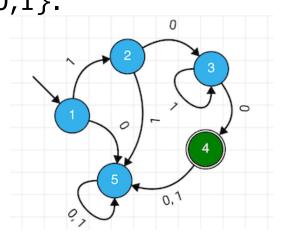
A.110*1

B.1*010

√ C. 101*0

D.1010*

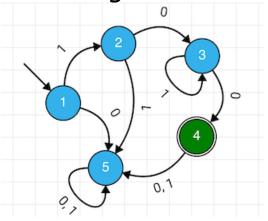
2. What is minimum pumping length for the language recognized by the DFA below? Note: $\Sigma = \{0,1\}$.



(3 points)

- **A.**2
- B.3
- **√** C. 4
 - D.5

3. We know that the DFA below recognizes the regular language given by 101*0 for $\Sigma=\{0,1\}$. How many additional states would be needed if we wanted to modify the DFA to recognize any string containing 101*0 as a substring?



(3 points)

- A. 1
- B. 2
- C.3
- ✓ D. none of above