

In-class Practice 5: REs and FAs

Give both a regular expression and a finite automaton for the following language. The alphabet is $\{a, b, c\}$. The language is all strings that satisfy at least one of the following properties:

- (i) the string starts and end with an **a**,
- (ii) the string starts with a **b** and has even length, or
- (iii) there is exactly one **c** in the string.