Quiz 0

1. If L is a *language* over an alphabet Σ, it means that...

   (a) L is a subset of Σ.

   (b) L is a list of strings over Σ.

   (c) L is a set of strings over Σ.

   (d) All of the above.

2. For every regular language, there exists a deterministic finite automaton (DFA) that accepts it.

   (a) True

   (b) False

3. Given any language L, there exists a DFA that accepts it.

   (a) True

   (b) False

4. Given any DFAs M_1 and M_2, if M_2 has more states than M_1, then M_2 accepts more strings than M_1.

   (a) True

   (b) False

5. If L is a regular language, then every subset of L is regular as well.

   (a) True

   (b) False