AcceptanceTests:

```
A_{\mathsf{DFA}} = \{\langle B, w \rangle | \ B \text{ is a DFA that accepts input string } w \}. A_{\mathsf{NFA}} = \{\langle B, w \rangle | \ B \text{ is an NFA that accepts input string } w \}. A_{\mathsf{REX}} = \{\langle R, w \rangle | \ R \text{ is a regular expression that generates string } w \}. A_{\mathsf{CFG}} = \{\langle G, w \rangle | \ G \text{ is a CFG that generates string } w \}.
```

EmptinessTests:

$$E_{\mathsf{DFA}} = \{ \langle A \rangle | \ A \text{ is a DFA and } L(A) = \emptyset \}$$

 $E_{\mathsf{CFG}} = \{ \langle G \rangle | \ G \text{ is a CFG and } L(G) = \emptyset \}.$

Equivalence Tests:

$$EQ_{\mathsf{DFA}} = \{ \langle A, B \rangle | \ A \ \mathsf{and} \ B \ \mathsf{are} \ \mathsf{DFAs} \ \mathsf{and} \ L(A) = L(B) \}.$$