

In-class Practice 7: The Product Construction

The alphabet is $\{0, 1\}$.

(a) Draw a 2-state FA for the language L_1 of all strings ending with 0.

(b) Draw a 2-state FA for the language L_2 of all strings containing an even number of 1's (and yes, zero is even).

(c) Use the product construction to produce an FA for the language $L_1 \cup L_2$.