

CSC236 winter 2020, quiz week 11₁

Question.

Given a language L , define $Bless(L)$ to be the strings in L with all instances of the symbol b removed. For example, $Bless(\{abba, cab, baa\}) = \{aa, ca\}$. Describe a procedure for constructing an FSA that accepts $Bless(\mathcal{L}(M))$ given an arbitrary DFSA M . (You may use non-determinism.)

Solution.

We construct M' by replacing all transitions labelled with b with ε transitions.