The book said to construct a DFA for this problem.

The homework said to construct an NFA for this problem.

I chose to follow the instructions in the homework handout to construct an NFA.

Given grammar:

S 🡪 abA

A 🡪 baB

B 🡪 aA | bb

The transition function in our NFA would be:

🡨 Our final state.

Transition functions form the following NFA:

NFA:

