Given an FSA find out the language that the FSA will generate.

If he vies a regex what is the string that could be generated out of this expression.

If he gives us regular grammer he would like us to produce an NFA out of it or something similar.

Determine if a certain language is regular or not.

If he gives us a regular expression can we find what DFA would be equivalent to it

If he gives us a regular expression can we make a NFA.

He might ask the inverse of a NFA or DFA.

Look up java regex API.

Concrete Algorithms, Know two algorithms for converting NFA to DFA

Know algorithms for minimizers.