Deterministic Finite Automata

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1.	Make a DFA for the language of all binary integers.
2.	Make a DFA for the language of all binary numbers with finite representation (only rational numbers that do not need repeating representation).
3.	Make a DFA for numbers written in scientific notation.
4.	Make a DFA for the language on $\{a,b\}$ with no two b 's in a row.
5.	Make a DFA for the language on $\{a,b\}$ with no b by itself.
6.	Make a DFA for the language $\{\lambda, a, aa, aab, aaba, aabaa, aabaab, \ldots\}$