

## Automata and formal languages

### Exercise 10

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Put the following grammars into Chomsky and Griebach normal forms.

1.

$$\begin{array}{l} S \rightarrow A1B \\ A \rightarrow 0A|\lambda \\ B \rightarrow 0B|1B|\lambda \end{array}$$

2.

$$\begin{array}{l} S \rightarrow AB|aaB \\ A \rightarrow a|Aa \\ B \rightarrow b \end{array}$$

3.

$$\begin{array}{l} S \rightarrow ASB|\lambda \\ A \rightarrow aAS|a \\ B \rightarrow SbS|A|bb \end{array}$$