

10 pts

Create a DFA for one of the following languages. Your group will be assigned to one of these.

Before attempting the DFA write down at least five strings in the language and five strings not in the language.

After building your DFA, get it checked off by showing it to Prof. Rodger.

1. $\Sigma = \{a, b\}$ (L) = $\{w \in \Sigma^* \mid w \text{ has an even number of } a\text{'s and there can be no more than three consecutive } b\text{'s}\}$.
2. $\Sigma = \{a, b\}$ (L) = $\{w \in \Sigma^* \mid w \text{ has no more than three consecutive } a\text{'s and no more than three consecutive } b\text{'s}\}$.