Computational Morphology
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Homework 1

For each exercise, draw a deterministic finite state automaton which implements the specification and provide a regular expression denoting the relevant language. For each exercise, the alphabet (allowable input characters) for the machine/regular expression is listed [in brackets].

1. Accepted words: CAT with any prefix. [A, C, T] (3 points)
2. Accepted words: all words that contain SUN or SON. [N, O, S, U] (3 points)
3. Accepted words: all strings that contain at least two Bs and at least one C. [A, B, C] (4 points)