Problem 1.70. We define the **avoids** operation for languages A and B to be

$$A \text{ avoids } B = \{w \mid w \in A \text{ and } w \text{ doesn't contain any string in } B \text{ as a substring}\}.$$

Prove that the class of regular languages is closed under the *avoids* operation.

Proof. Solution Replace this text with the details of your proof or solution.   □