Definition 1. The function **Reverse** pairs a string of letters with the same string, but the letters listed in reverse order.

- The domain of Consonants is all strings of letters in the English alphabet.
- The codomain of Consonants is all strings of letters in the English alphabet.
- The pair (string1, string2) is a member of the Reverse function if string2 is string1 backwards.

Exercise 1 $Reverse("bike") = \boxed{"ekib"}$

Exercise 2 Reverse("mrots") = "storm"

Exercise 3 $Reverse("week") = \boxed{"keew"}$

Exercise 4 Does the range of Reverse equal the codomain.

Multiple Choice:

- (a) Yes ✓
- (b) *No*

Feedback (attempt): Any string can be reversed.

Exercise 5 If string1 and string2 are two different strings of letters, then is it possible for Reverse(string1) = Reverse(string2)?

Multiple Choice:

- (a) Yes
- (b) No ✓

Feedback (attempt): If the reversal of two strings are equal, then the original strings have to be equal.

Exercise 6 How many solutions does Reverse(string) = "school"? have? 1

Feedback (attempt): "loohcs" is the only solution.

Exercise 7 Is it possible for Reverse(string) = string?

Multiple Choice:

(a) Yes ✓
(b) No

Feedback (attempt): Example: Reverse("dad") = "dad"

Exercise 8 Does the equation Reverse(Reverse(string)) = string have any solu-

Multiple Choice:

- (a) Yes ✓
- (b) No

tions?

Feedback (attempt): The solution set is the whole domain. The reversal of the reversal of any string results in the original string.