0.0.1 Append

The operation *append* will return a Collection with a Value added at a specified numeric Index.

$$append(coll, v, idx) \rightarrow X'$$

such that if X is a collection $< x_0, x_1, x_2 >$ where

$$x_0 = 0$$

$$x_1 = foo$$

$$x_2 = < a, b, c >$$

then the v will be added to X to create X'

$$append(X, bar, 0) = < bar, 0, foo, < a, b, c >> = X'$$

$$append(X, bar, 1) = < 0, bar, foo, < a, b, c >> = X'$$

$$append(X, bar, 2) = < 0, foo, bar, < a, b, c >> = X'$$

$$append(X, bar, 3) = < 0, foo, < a, b, c >, bar > = X'$$