## 0.0.1 Remove

The inverse of the append Operations.

```
remove(coll, idx) = ^{\sim} append(coll, idx)
```

The operation remove will return a Collection minus the Value removed from the specified Numeric Index

such that

```
 \begin{array}{l} X = \langle x_0, x_1, x_2 \rangle \\ x_0 = 0 \\ x_1 = foo \\ x_2 = baz \\ remove(X,0) = \langle foo, baz \rangle & [0 \text{ was removed from } X] \\ remove(X,1) = \langle 0, baz \rangle & [foo \text{ was removed from } X] \\ remove(X,2) = \langle 0, foo \rangle & [baz \text{ was removed from } X] \\ remove(X,3) = \langle 0, foo, baz \rangle = X & [nothing at 3, X \text{ unaltered}] \\ \end{array}
```