0.0.1 Map

The map operation takes in a function fn?, Collection coll? and additional Arguments args? (as necessary) and returns a modified Collection coll! with members fn!_n. The ordering of coll? is maintained within coll!

Above, $fn!_n$ is introduced to handle the case where fn? only requires a single argument. Additional arguments may be necessary but if they are not $(args? = \emptyset)$ then only $coll?_n$ is passed to fn?.

$$\begin{split} X &= \langle 1,2,3 \rangle \\ & map\left(succ,X\right) = \langle 2,3,4 \rangle \\ & map\left(+,X,2\right) = \langle 3,4,5 \rangle \end{split} \qquad \text{[increment each member of X]}$$