$$\text{func}(l, (::), []) = l$$

$$\text{myreduce}(l, \text{cnsr}, []) = \text{reverse}.l$$

$$\text{cnsr}.x.y = y :: x$$
$$= (::).y.x$$

$$\text{cnsr}. = \text{flip}.(::)$$

$$\text{myreduce}(l, \text{flip}.(::), []) = \text{reverse}.l$$

If $\cancel{\text{myreduce}}$ func $(l, op, i) = L$

then $\text{myreduce}(l, \text{flip}(op), i) = \text{reverse}(L)$

$$[x_1, x_2 \cdots x_n] \qquad [x_n, x_{n-1} \cdots x_1]$$

$$L \quad x_1 \; op \, (x_2 \; \cdots \; op \, (x_n \; op \; i)))$$

$$(i \; \tilde{op} \; x_n) \; \tilde{op} \; x_{n-1} \; \cdots \; \tilde{op} \; x_1$$

$$\text{myreduce}(\text{reverse}.l, \tilde{op}, i)$$

$$\begin{cases} ma\ .\ x\ .\ y = r \\ p\ .\ (x, y) = r \end{cases}$$

$$ss\ .\ ma = p$$

$$p : (a, b) \to c$$

$$m : a \to b \to c$$

$$\forall x, y \quad p\ .\ (x, y) = m\ .\ x\ .\ y$$

$$ss\ .\ p = m$$

$$m\ .\ x\ .\ y = p\ .\ (x, y)$$

SS :

$$((a, b) \to c) \to a \to b \to c$$

$$W \to x \to y \to z$$

$$\downarrow$$

$$(w_1 \to w_2) \to x \to y \to z$$

$$\downarrow$$

$$((w_{11}, w_{12}) \to w_2) \to x \to y \to z$$

$$((x, y) \to w_2) \to x \to y \to z$$

$$((x, y) \to z) \to x \to y \to z$$

$$x = 2 + 3$$

$$y = x + 5$$

$$a \to b \to c \to d$$

$$a \to (b \to (c \to d))$$

$$f \cdot x \cdot y \cdot z$$

$$((f \cdot x) \cdot y) \cdot z$$

$$f$$

$$f \cdot x \cdot y \cdot z$$

$$f \cdot x$$

$$f \cdot x \cdot y$$

$$\forall x \quad f \cdot \cancel{x} = g \cdot \cancel{x}$$

$$\equiv$$

$$f = g$$ fh

$$\mathrm{flip}\cdot op = \widetilde{op}$$

$$op\cdot x\cdot y = \widetilde{op}\cdot y\cdot x$$

$$\widetilde{op}\cdot y\cdot x = op\cdot x\cdot y$$