empty : → Stack

cons _ _ : Nat , Stack → Stack

reverse _ : Stack → Stack

getLast _ : Stack → Nat

removeLast : Stack → Stack

concat _ _ : Stack, Stack → Stack

$$\begin{cases} getLast(empty) = 0 \\ getLast(cons(x, empty)) = x \\ getLast(cons(x, s)) = getLast(s) \quad \text{if } s \neq empty \end{cases}$$

$$\begin{cases} removeLast(empty) = empty \\ removeLast(cons(x, empty)) = empty \\ removeLast(cons(x, s)) = cons(x, removeLast(s)) \quad \text{if } s \neq empty \end{cases}$$

$$\begin{cases} reverse(empty) = empty \\ reverse(s) = cons(getLast(s), reverse(removeLast(s))) \end{cases}$$

$$\begin{cases} concat(empty, s) = s \\ concat(cons(x, s_1), s_2) = cons(x, concat(s_1, s_2)) \end{cases}$$