s := id = e;
| type id = $cons_1 | \ldots | cons_2$;
| e;

e := id
| literal
| $e_1 \circ e_2$
| $e_1\ e_2$
| $e_1.e_2$
| case e [$pat_1 \Rightarrow e_1 | \ldots | pat_n \Rightarrow e_n$]
| $(e_1, \cdots, e_n)$
| $\{e_1; \cdots; e_n\}$
| \ id .e
| TOP
| BOT

pat := id | _ |$e_1\ e_2$|$(e_1, \cdots, e_n)$

L-PrimOp
$$\frac{e_1 \succ e_1'}{e_1 \circ e_2 \succ e_1' \circ e_2}$$

R-PrimOp
$$\frac{e_2 \succ e_2'}{\overline{v} \circ e_2 \succ \overline{v} \circ e_2'}$$

PrimOp
$$\overline{v_1} \circ \overline{v_2} \succ \overline{v_1 \circ v_2}$$

L-App
$$\frac{e_1 \succ e_1'}{e_1\ e_2 \succ e_1'\ e_2}$$

R-App
$$\frac{e_2 \succ e_2'}{v\ e_2 \succ v\ e_2'}$$

Beta
$$(\backslash x.e)v \succ e[v/x]$$

L-Access
$$\frac{e_1 \succ e_1'}{e_1.e_2 \succ e_1'.e_2}$$

R-Access
$$\frac{e_2 \succ e_2'}{v.e_2 \succ v.e_2'}$$

Access
$$(e_1, \cdots, \overline{v_m}, \cdots, e_n).\overline{m} \succ \overline{v_m}$$

n-Tup
$$\frac{e_m \succ e_m'}{(e_1, \cdots, e_m, \cdots, e_n) \succ (e_1, \cdots, e_m', \cdots, e_n)}$$

n-Block
$$\frac{e_1 \succ e_1'}{\{e_1; \ldots; e_n\} \succ \{e_1'; \ldots; e_n\}}$$

Block-Kill
$$\{\overline{v}; e_2; \ldots; e_n\} \succ \{e_2; \ldots; e_n\}$$

1-Block
$$\{\overline{v}\} \succ \overline{v}$$

case-pat
$$\frac{p_m \succ p_m'}{\texttt{case}\ e\ [\ p_1 \Rightarrow e_1 | \ldots | p_m \Rightarrow e_m | \ldots | p_n \Rightarrow e_n\ ] \succ \texttt{case}\ e\ [\ p_1 \Rightarrow e_1 | \ldots | p_m' \Rightarrow e_m | \ldots | p_n \Rightarrow e_n\ ]}$$

case-red
$$\frac{e \succ e'}{\texttt{case}\ e\ [\ p_1 \Rightarrow e_1 | \ldots | p_n \Rightarrow e_n\ ] \succ \texttt{case}\ e'\ [\ p_1 \Rightarrow e_1 | \ldots | p_n \Rightarrow e_n\ ]}$$

TODO: Formalize case