$$\mathcal{R}^{E}_{arepsilon}(E,z_{ ext{dest}},E_{ ext{continue with the following}})=(e',arepsilon')$$

NOTES

- RegAlloc environments: ε : before the command execution, ε' : after the execution of $x \leftarrow e, \varepsilon''$: after the execution of $(x \leftarrow e, E)$.
 - Command sequence: E: original command sequence, E': the command sequence for $x \leftarrow e$ after its regalloc, E'': the command sequence for E after its regalloc.
 - All the registers are occupied with live variables (y scans over live variables $FV(E'_{cont})$). The variable's value is pushed out of the allocated register and is saved in the stack (\$.
 - ∘ $\varepsilon'(y) \leftarrow E'$: Save the result of $x \leftarrow e$ in the register which was occupied with $y(\varepsilon'(y))$.
 - If the register *y* is going to be used while executing *E* but is not allocated, yet, we can use the register to store the value of *x* for the moment.

DAY 14

To remove ambiguous var names — a conversion