Parser->lever->type checking->???->knormal (from bottom to top

Reference: point to a box containing content **Dereference**: value pop out of the box???

Beta Reduction:

β reduction: ε is a mapping that takes a variable name and gives its β-converted name. We consider ε(x) = x when ε is not defined for x.

```
# beta_p
let x = 1 in
let y = x in
x + y

# alpha beta_p
Let (Ti5_6,
Let (x_7, 1,
Let (y_8, x_7, Add(x_7, y_8))), ...)
# beta beta_p
Let (Ti1_2,
Let (x_3, 1, Add(x_3, x_3)), ...)
```

In min-calm check the examples above cd min-caml —>./min-caml.top control+D

```
(* assoc_let_p*)
let x =
   let y = 1 in
   let z = 2 in
   y + z in
x
```

Let Reduction:

```
(* assoc_let_p*)
let x =
let y = 1 in
let z = 2 in
y + z in
x
move let y&z outside the let x
```