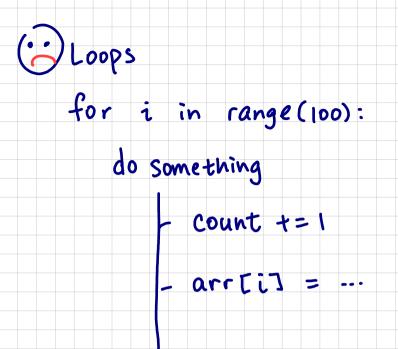
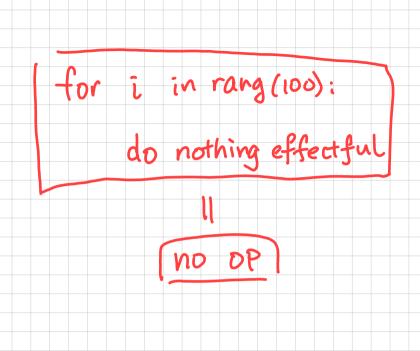
- Installing Ocaml 7 see CS162 github (section/sec 01)
- Running Ocaml
- Mutation vs binding
- Crash course on recursion for CS162.
  - \_ Recipe
  - Demo: List length
  - Exercise. List append
  - Exercise: tree mirroring

```
# Mutation vs Binding
Consider:
 <python>
                    < Ocaml>
                                        <OCaml>
                                         let x=1 in
                     let x= 1 in
(x = x+1)
                                        (let y = (let x=x+1 in x) in
                     let 12=x+1 in
                     print_int(x)
 print(x)
                                         print_int(x)
   In O Caml, "variables" don't vary
   They aren't memory boxes!
    Instead, they're <u>names</u> for <u>values</u> that are <u>immutable</u>
   Imperative programming ( Functional programming
                              data date
```





Recursion: <u>Compose</u> Solutions to smaller problems into sol'n to a big problem

