ALLASING + MATATION = DANGER ZONE -> 'ACTION AT

QUESTIONS TO ASK BEFORE ALIASING? 1. IS ALIASING NECESSARY? IS A VARIABLE REDUNDANT?

2. NTRODUCE ALIASES AS CLOSE AS POSSIBLE TO THE VARIABLE DEFINITION.

THE DEFAULT IS NON-MUTATION.

MUTATION IN FUNCTIONS MUST

BE EXPLICITLY DEFINED.



FUNCTION
DESIGN
RECIPE
TO AVOID CODE VOMIT

- O. NAIL DOWN WHAT THE FUNCTION POES,
- 1. PROVIDE AN EXAMPLE OF USAGE
- 2. WRITE A TYPE CONTRACT THAT IDENTIFIES NAME AND TYPE OF EACH PARAMETER.
- 3. WRITE AN EXPRESSIVE HEADER ABOVE THE POCSTRING
- 4. PROVIDE A CONCISE DESCRIPTION OF THE FUNCTIONALITY

BEYOND THE TYPE CONTRACT AND LABEL THEM 'AS PRECONDITIONS.

5. TEST

? IS THE TYPE CONTRACT FUNCTIONAL?

TESTING

· DOCTEST

INCLUDE IN EVERY MODULE

· UNITTEST

SELF. ASSERT EQUAL (RETURN_VALUE, EXPECTED)

DOCUMENTATION

- · DOCUMENTATION AS PLANNING
 - FORMALIZATION OF THE PLAN
- · DOCUMENTATION AS CONTRACTS
 - -> FORMALIZATION OF THE INTENTION