COP 3330   2/2/2026

Static Methods ———→ function (in C / in Python)

"belongs to the class"

    void — ~~restu~~ returns nothing // return;
    primitive — int, char...
    reference type – String

public static RETTYPE METHODNAME (PARAMETER LIST)
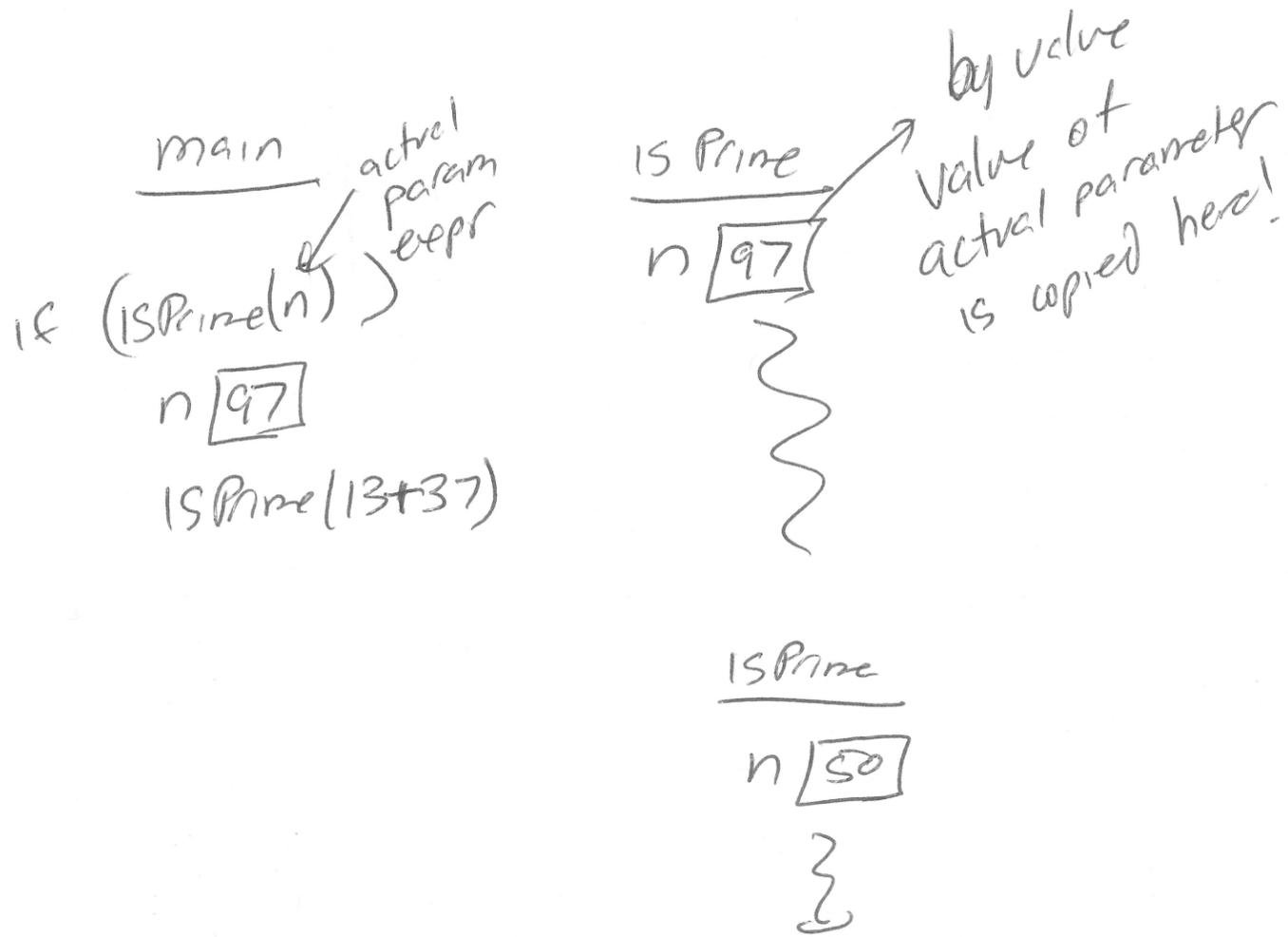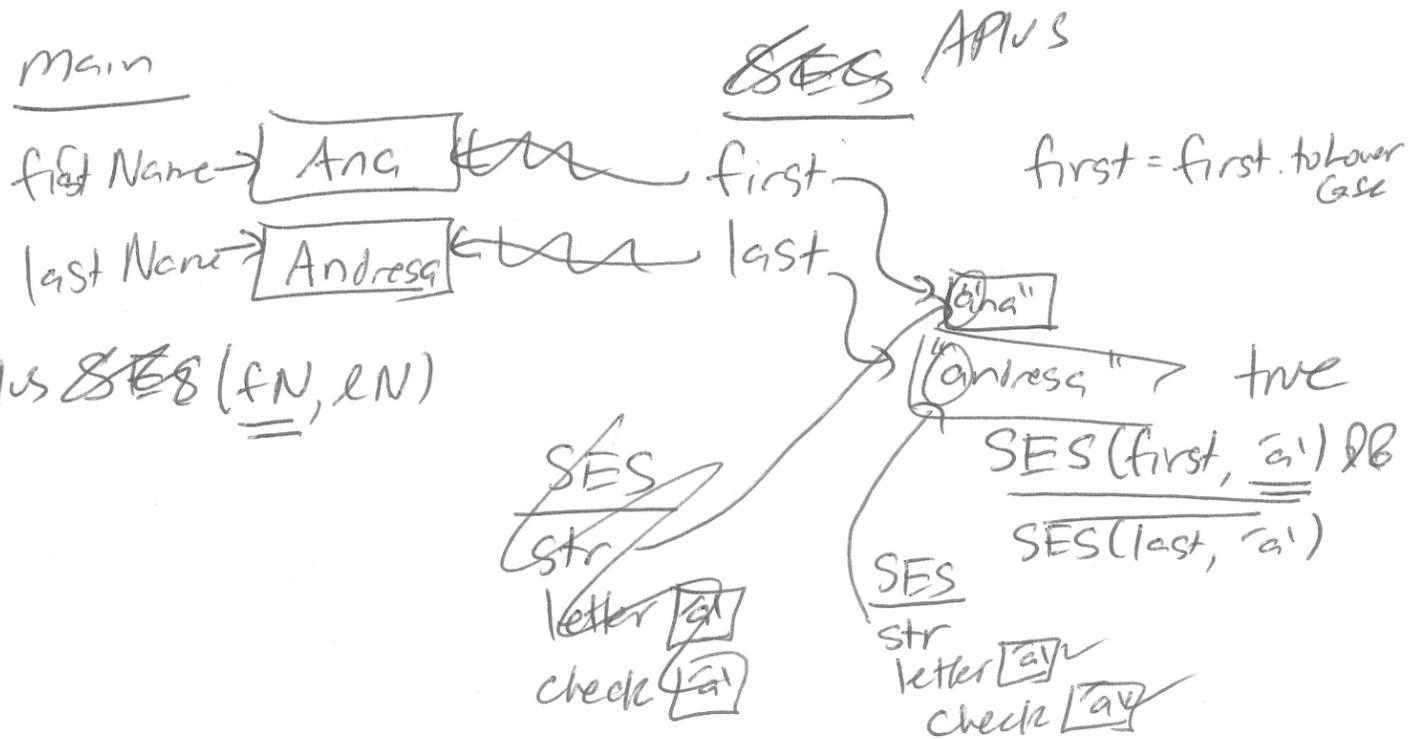   FORMAL

}

~~Ger~~ TO CALL

Outside class   CLASSNAME. METHODNAME (PARAMS)
                                         ACTUAL
if you're in same class → METHODNAME (ACT PARAM)

① Prime Check 2   } boolean
② A+ question
③ String returns monagram

main   actual param expr

if (ISPrime(n)) expr

n [97]

ISPrime(13+37)

IS Prime

n [97]

by value
value of
actual parameter
is copied here!

ISPrime

n [50]

APlus Adjusted Example

main   ~~SES~~ APlus

firstName → [Ana]

lastName → [Andresa]

APlus ~~SES~~ (fN, lN)

first

last

first = first.toLowerCase

["ana"]

["andresa"] → true

SES(first, 'a') &&
SES(last, 'a')

SES
str
letter [a]
check [a]

SES
str
letter [a]
check [a]

main

first → [Ane]

last → [6cha]

mym →

String mym = ...

mym = getMonogram
  (first, last)

getMonogram   garbage
                     ↗ collected
first   ("ARUP")

last
firstPart =   → ("AR")

first.toUpperCase().substring
                        (0,2)

secon
lastPart   → (G)

            (ARG)   (6HHA)

    return