Text, letter

Description automatically generated

* Don’t have to take new name

Text, letter

Description automatically generated

* However, the return type will never be considered as function overloading

Text, letter

Description automatically generated

* This is a name conflict

Text, letter

Description automatically generated

Text, letter

Description automatically generated

Text, letter

Description automatically generated

Diagram

Description automatically generated

* Call / Pass by value does not swap.
* If you want a function to return a value, then we will return a value

Diagram, letter

Description automatically generated

Diagram

Description automatically generated

* This is caclled by address

**CALLED by REFERENCE = called by the NICKNAME. Work similar to called by addresses but simpler**

* **Called by value and address will copy value while called by reference will not since swap will be part of main()**

A person writing on a white board

Description automatically generated with low confidence

**RETURN BY ADDRESS = > Dynamically create array with anysize**

Text, letter

Description automatically generated

Diagram

Description automatically generated

Diagram

Description automatically generated

**STATIC VARIABLE:**

* **You want to convert local variable of a function that created in the stack to be a global variable but accessed only via code block not stack or heap. IT IS GLOBAL but access only on the scopte**

Diagram

Description automatically generated

**DECLARE A POINTER TO A FUNCTION**

Text, letter

Description automatically generated

Text, letter

Description automatically generated

* **Use for function overwriting (Polymorephys)**

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application

Description automatically generated