

# Problem Solving through Programming in C

COE 251

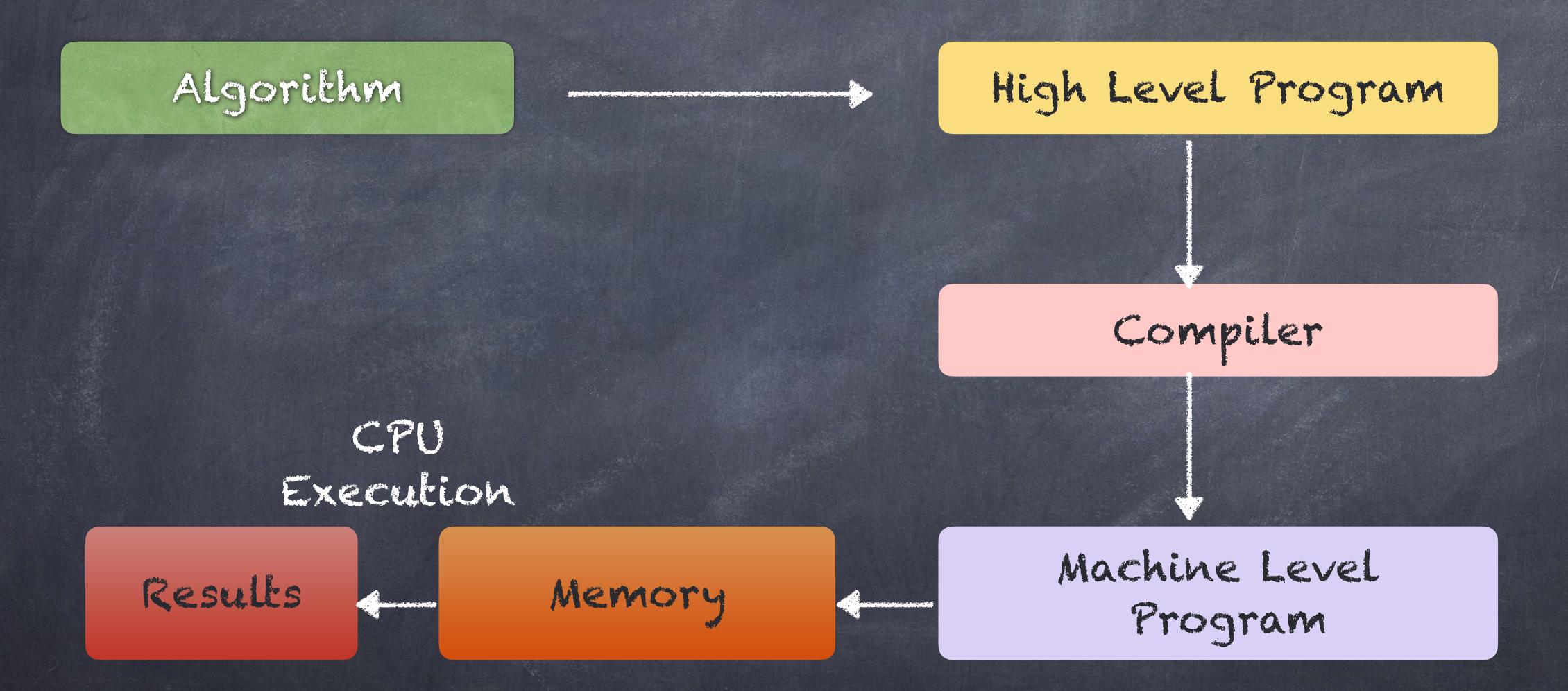
WEEK 1: VARIABLES AND MEMORY



# VARIABLES & MEMORY



#### 





# VACIABLES & MEMORY

In the previous examples we came across pseudocodes like ...

SUM = SUM + NUM1

MAX = NUMBER

=4

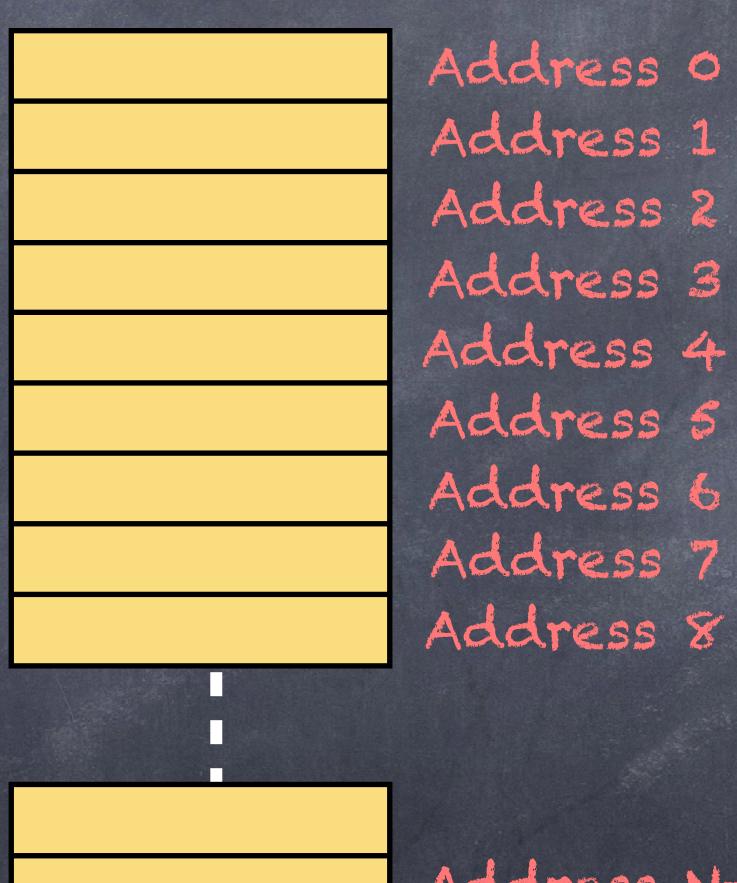
Variables

Values



#### MEMORIA

Memory Location



Every variable is mapped to a particular Memory address

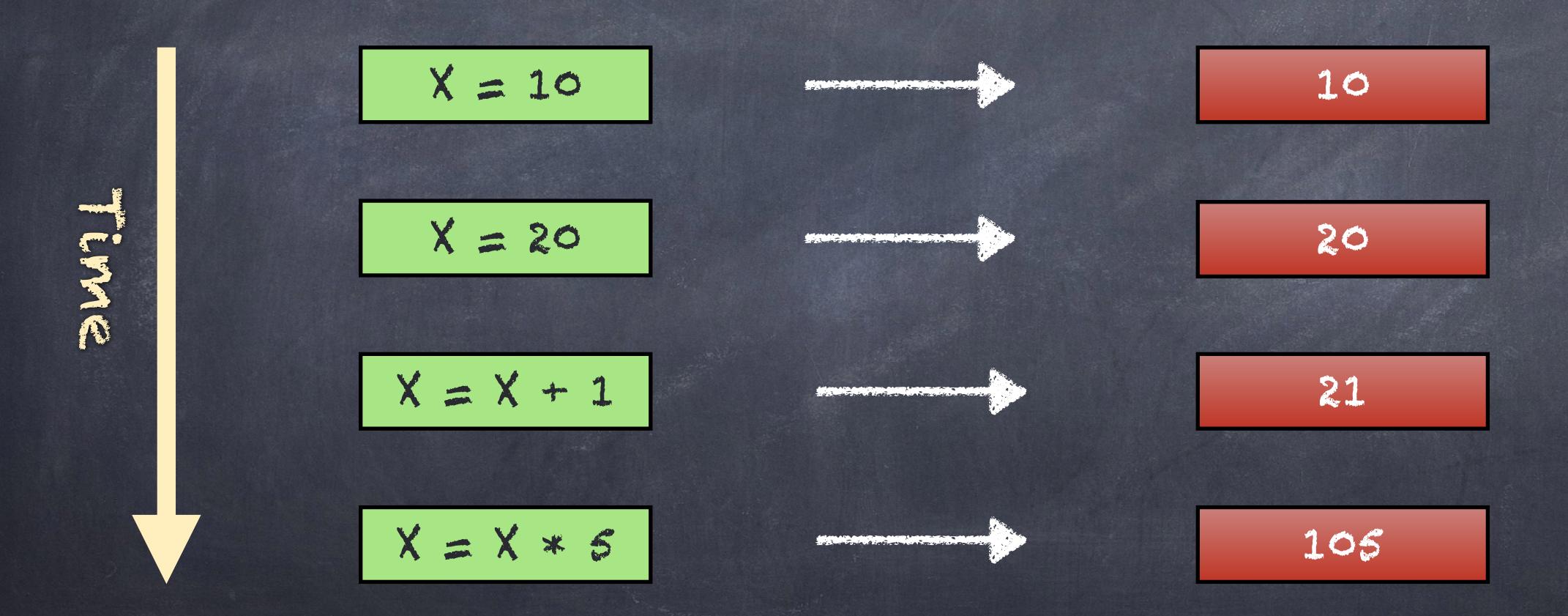
Address N-1



### Instructions & Variables in Memory

Instructions Executed

Memory Location Allocated to a Variable "X"





## Instructions & Variables in Memory

Instructions Executed

Variable





# Types of Softwares and Compilers