

## Memory Diagram

"19"



- 3.) `age : int = int(input("How old are you? "))`
- 11.) `year : int = int(input("What year is it? "))`
- 5.) `age_in_2041 = int = 2041 - year + age`
- 6.) `print("In 2041, you'll be " + str(age_in_2041))`

$19 + 1 = 20 \rightarrow \text{Store} \rightarrow \text{variable} \rightarrow \text{age}$

variable  
reassignment

`age = age + 1`  
`year = year + 1`  
`print("In " + str(year) + ", you'll be " + str(age))`

## Stack

Globals

age	20
year	2023
age_in_2041	38

## Output

in 2041, you'll be 38

In 2023, you'll be 20