Function Arguments (Review)

- The contents of an actual parameter are copied into the function parameters
 - Two variables = two different memory locations
 - Have NO RELATION to each other at this point

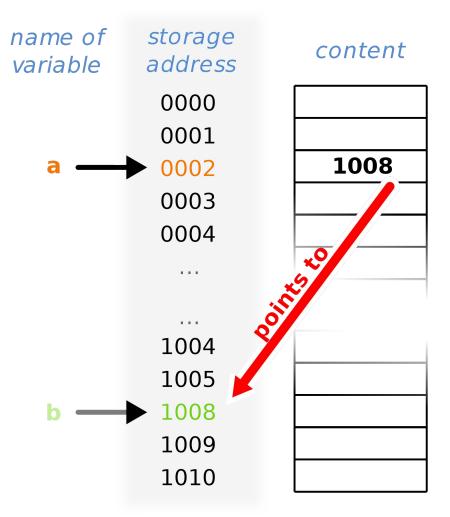
 Remember: One variable refers to one (and only one) memory address

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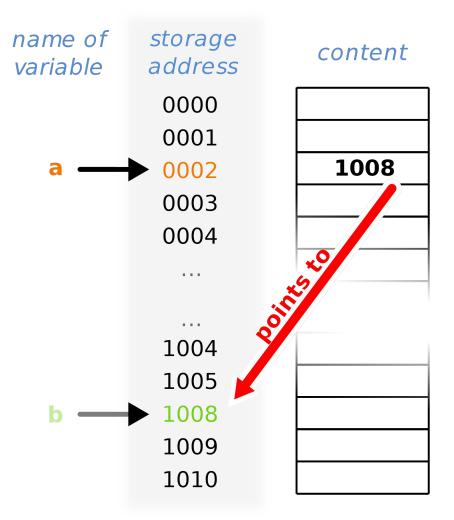
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 Pointer = a variable that stores the *memory location* of another variable





 Allows variables to modify each other (without breaking the one-variable-refers-to-1memory-address rule)





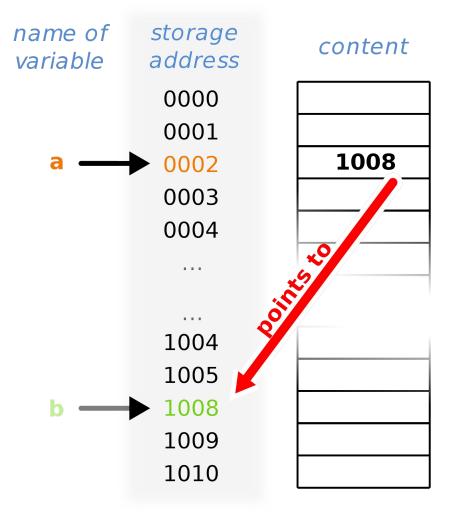
Memory locations are accessed through &

- Scanf("%d", &num1);
 - The number scanned in is placed into the memory location given by &num1



• Code:

```
int b;
int a = &b;
/*Now, a holds the memory
address of b*/
```





- Memory locations are accessed through &
- Memory locations are printed using %p along with &

```
int num1 = 13;
printf("The memory location of num1 is: %p",
&num1);
```



- Values at specific memory addresses can be accessed using *
 - NOT multiplication!
 - Is placed directly before a variable (no spaces in between)
 - Examples: *b, *memory, *football



 More specifically, the object that a variable points to can be referenced by *

