Today: arrays
strings
linked lists?

array is like a list, but fixed in size

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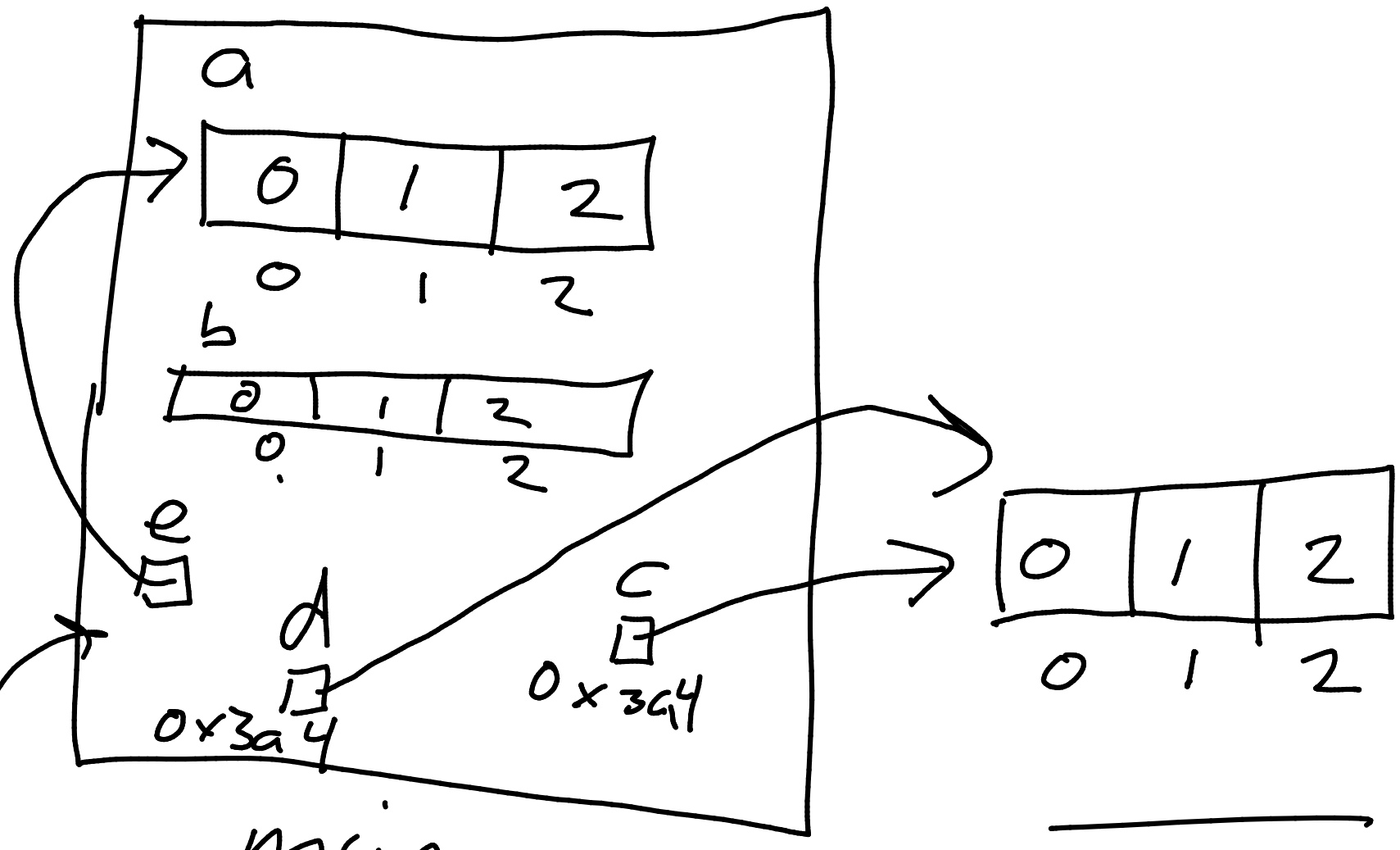
step 1



e = a

step 2

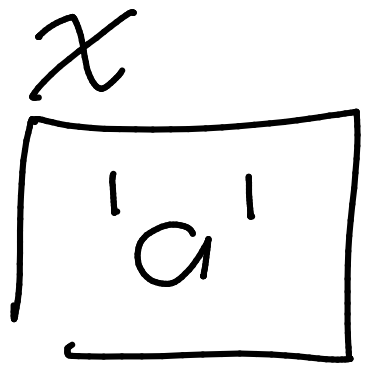
in general, pointing at
other things in the stack
(often via &)
is usually a bad idea

Strings don't really exist in C

- instead, we have arrays of chars

← single quotes

```
char x = 'a';
```

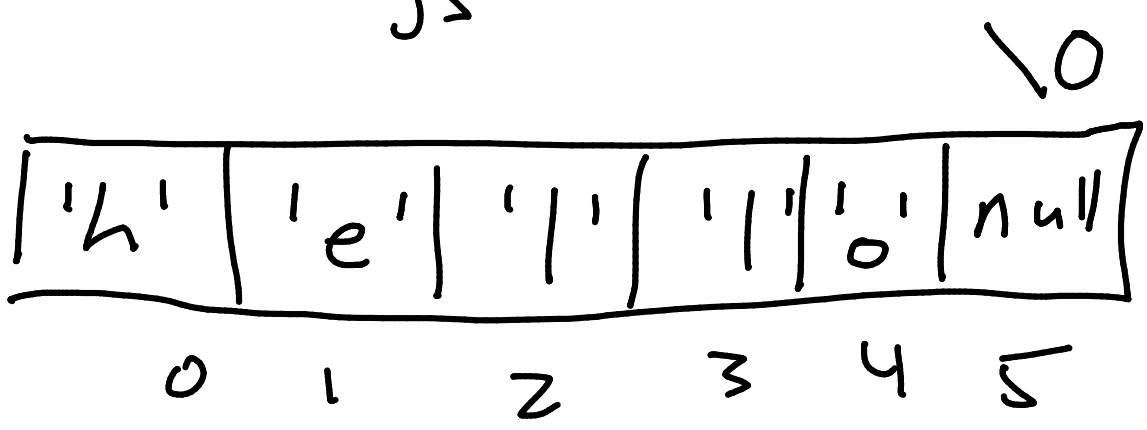


super important

char ⟷ single quotes only

double quotes ⟷ strings

"hello"



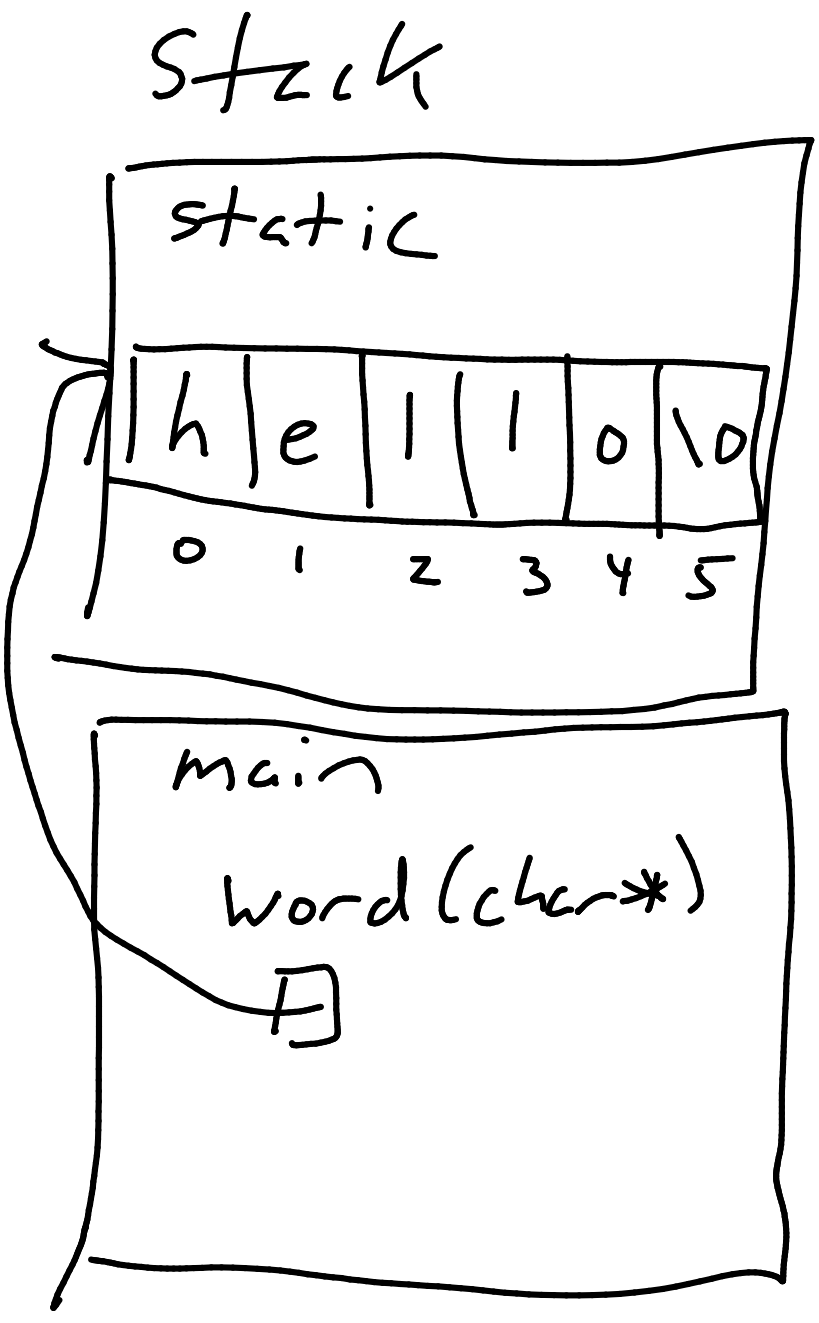
just an array of 6 chars, where the last one is a null.

C never remembers how long a string is.

e.g. if you print it, it just loops until it hits the null.

Making sure null is there is super important

When you put text in double quotes it automatically generates a null-terminated string in static memory (special stack frame created at start of program)



all static memory is immutable

strcpy(a, b) copies string b to a including the null terminator

(but memory for a has to be there)