Why does order change the size?



```
size = 12 bytes
// Struct A
struct A {
char a; // 1 byte
int b; // 4
bychar c; // 1 byte
};
// Struct B
                       size = 8 bytes
struct B {
char a; // 1 byte
char c; // 1 byte
 int b; // 4
}ytes
```

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What's Happening Here?

@On a 32-bit CPU,
Memory is typically accessed in 4-byte chunks
(called word alignment).

That means:

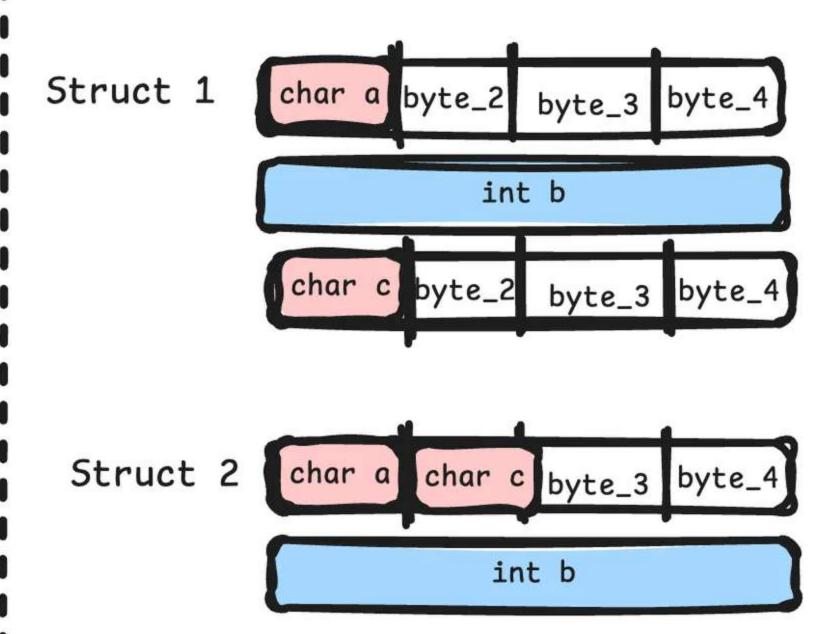
int (4 bytes) must start at an address that's a multiple of 4.

If it doesn;'t, the CPU runs slower.

To avoid this, the compiler adds padding bytes between struct members. Also known as Struct Padding.

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Lets break it down



swipe -

So Remember

- Always check your struct layout.
- ✓ Order members from largest to smallest.

few bytes saved in stuct =
kilobytes saved in memory.

EWskills

Practice struct padding at EWskills.com Link in description.



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