

CS 208

W, 24 Sep 2025

0xfffffff9

1111

negative -7

~

0000 — 00000110

+

0 — 00000111

← 7

-17 ~ 01 10001

↓ ~

1111 ... 1111 01110

↘ +1

1111 — 1111 01111

0x ffffffffef

Memory

addresses



← 1 byte

int x = -17;

0xffffffff

x's address
you can get
via &x

Unicode, at heart

$\tilde{n}$ — U+00F1

LATIN SMALL LETTER
N WITH TILDE

Mapping Character $\leftrightarrow$ integer
"Codepoint"

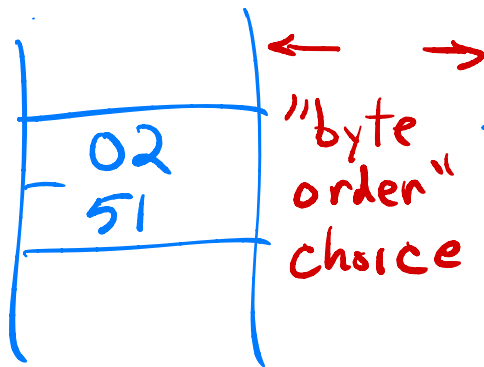
Suppose I want to store

$\alpha \sim U+0251$

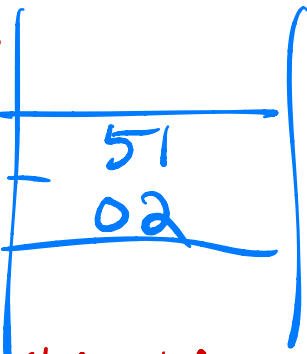
UTF-16 BE

UTF-16 LE

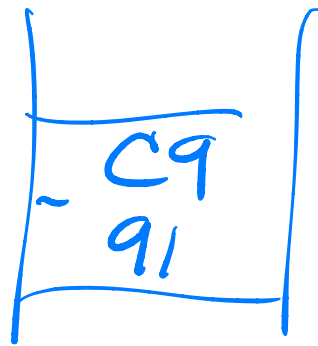
UTF-8



"big endian"



"little endian"



WTH?