



CS 208

F, 19 Jan 2024

00 — 01  
⋮

0111...11  $\rightarrow k = k + 1$   
1000...00

$$0111 \dots 111 \quad 2^{31} - 1$$

⋮

$$000 \text{ — } 0$$

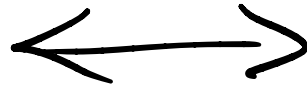
$$111 \text{ — } 1$$

⋮

$$1000 \text{ — } 0 \quad -2^{31}$$

# ASCII

integer  
(0 - 127)  
0 - (2<sup>7</sup> - 1)



character

codepoint

67



C (upper case)

33



!

Unicode - int'l standard

Codepoint  $\longleftrightarrow$  character

U+03B1  $\longleftrightarrow$   $\alpha$  (Greek alpha)