

THEORY

Tuesday, 8 February 2022

6:51 PM

Strings: ^X set, [✓] array, [✓] collection, [✓] sequence

{ 'a', 'a' }

String: Java, Python (End of class)

string s;

0s or 1s (Binary) 1 byte
ASCII

'a' → 97	'A' → 65
'b' → 98	'B' → 66
⋮	⋮
'z' → 122	'Z' → 90

'_ ' → 32 256 ASCII

'1' →
'2' →
'3' →

1 → 255

1 Byte has 8 bits
 2^8 (0 - 255)

Java & Python, C++ (string literal)

Strings are immutable // we cannot modify

s = "abcd"

s[0] = 'c' // throw error

strings to char array in order to modify



s2. to Char Array() → s = new String("abc")
s2 = new String("abc") // new string not created
C++

String s = "abc"

s[0] = 'd' ✓

char *s = "abc" ✗

DATA $\xrightarrow{\text{API}}$ serialize to json
 $\xleftarrow{\text{De serialize to Object}}$

swap(a, b)

int temp = a;

a = b

b = temp