Strings

$21^{st}, 22^{nd}$

$15-20^{th}$ Mar

3 hr test

5-6 problems

33%
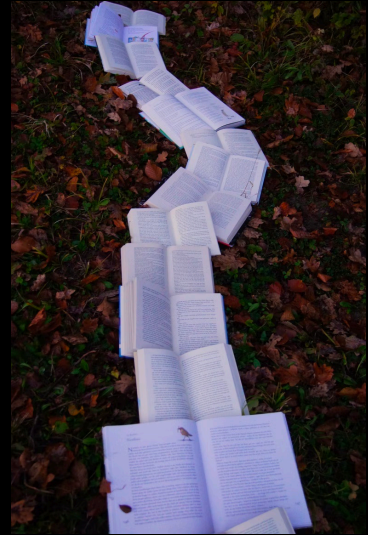
$$S = \text{"Hello"}$$
$$01234$$

s.charAt(1) $\Rightarrow$ e

s.charAt(4) $\Rightarrow$ o

Immutable

↳ Cannot be modified or changed

Instructor
Tarun Luthra

- Software Engineer & Instructor @ Scaler
- Fullstack Developer @ LevelAI (USA based startup)
- Fullstack Developer @ Coding Minutes
- Mentor @ Coding Blocks

Immutable

↳ Cannot be modified or changed

$s = \text{"abc"}$

$t = \text{"abc"}$

$t = s + \text{"def"}$

$\downarrow$

$\text{"abc"} + \text{"def"}$

$\downarrow$

"abcdef"

$s = \text{"Hello"}$

$p = \text{"hello"}$

"Hello"

s → "abc"

t

"abcdef"

Garbage
Collector
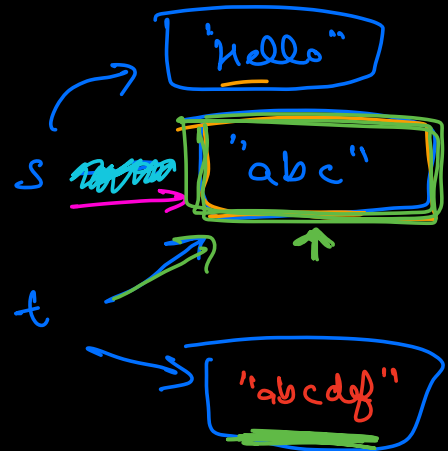
p → "hello"

Car Remotes

Access the car

Lock/unlock

r1 [⬜⬜] ⟿⟿⟿⟿⟹ Maruti 800

r2 [▷▷] Lamborghini
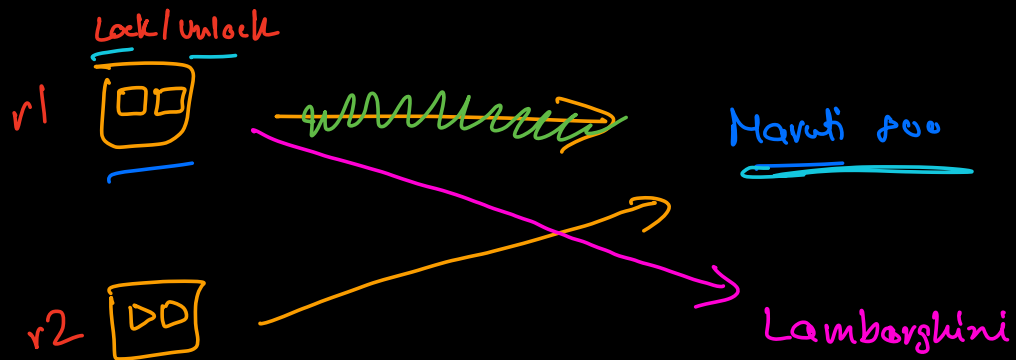
Remote cannot change the car

{
S1 = "abc"

S2 = "abc"
}

S1 = "abcd"

S1 ~~way~~ "abc"

S2 ↗

"abcd"

$S = $ "I love Programming"

$S2 = $ s.replace("Programming", "Java")

$S \rightarrow$ "I love Programming"

$S2 \rightarrow$ "I love Java"

$S3 = $ s3.replace ("hello", "HELLO")

$S3$ ~~hello~~ "hello world"

$\rightarrow$ "HELLO world

String a = "abc";

String b = "abc";

first method
of defining Strings

a → "abc"

b
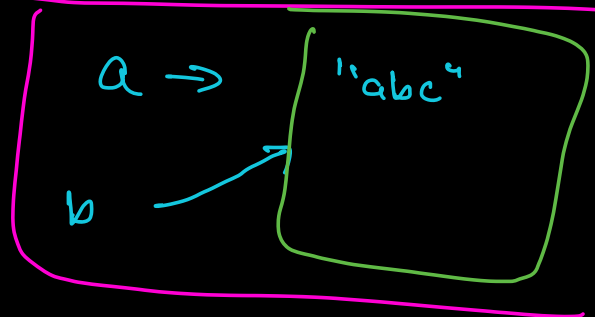
Break till 10:45 PM

S = "Hello"
↓
String

✓ Instance }
✓ object
✓ literal

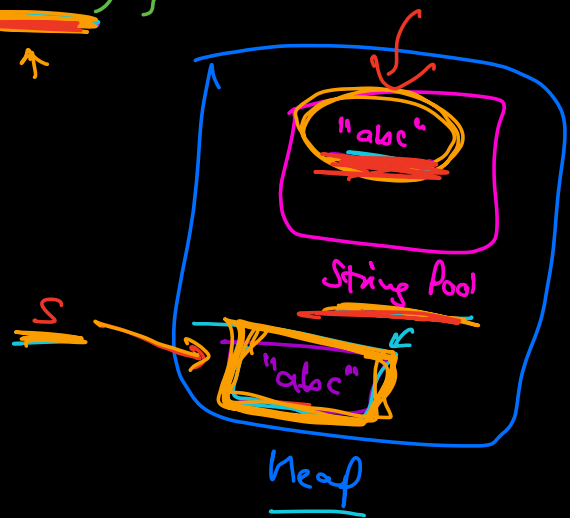S → "Hello"

call stack
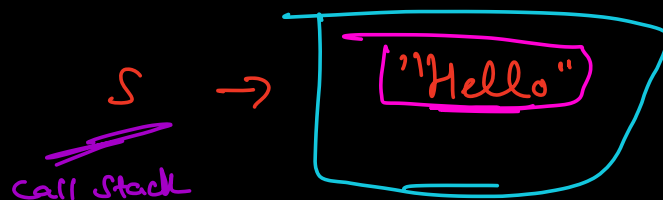
.hashcode → hash the data

Hashing → Advanced Batch

→ → String s = new String ("abc");

"abc"

String pool

s

"abc"

Heap

Strings → Immutable
↓
Cannot be changed / modified

t = "hello"
S = "hello";

S + = "world";

t ⤵
S ₘₛ "hello"
↘ "hello world"
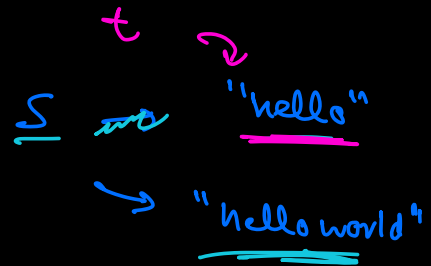
Many updates

String Builder

Can be modified/
changed
↑
← Mutable
Strings

Slides –
https://slides.com/tarunluthra/strings-java/