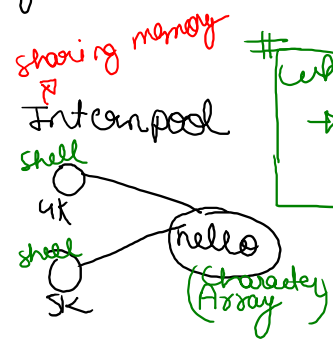


# String immutability?

\* Memory, interning, new

\* String S1 = "hello", String S2 = "hello", String S3 = new String("hello")

S3	5K
S2	4K
S1	4K



# why interning  
→ space optimization

↓  
prevent interning

## Implication of interning

### 1. Comparison

S1 == S2 true

S1 == S3 false

so use equals for comparison in String.

### 2. Immutability

what Reference is mutable, instance is not

why Interining, so if one string changed then other don't get changed.

Impact Performance slow.

eg String s = ""  
for (i = 0; i < 100; i++) {  
    s += i;  
}

⇒ O(n<sup>2</sup>)

}