

Strings: used to store more than one character.

Eg. name.

0	1	2	3	4
m	a	n	s	i

Indexing start from Zero.

char c = 'c'; — Character

String str = "abcdef";

Non-primitive data type / keyword

↓
name of string / reference

↓
data

To print the string

use `charAt()`

`syso(str.charAt(i));`

`syso(str[i]);` / wrong way.

→ `str.length();` - for finding the length of the string.

substring : part of the string

✓ `str.substring (start Index, End Index);`

`str.substring (1, 4);` → // ans

last index will not print, will print till last-1.

✓ `str.substring (start Index);`

`str.substring (1);` // ansi

→ `str.substring(0);` → complete string will get printed

→ `syso(str);` → complete string

→ `str.substring(str.length());` → empty string

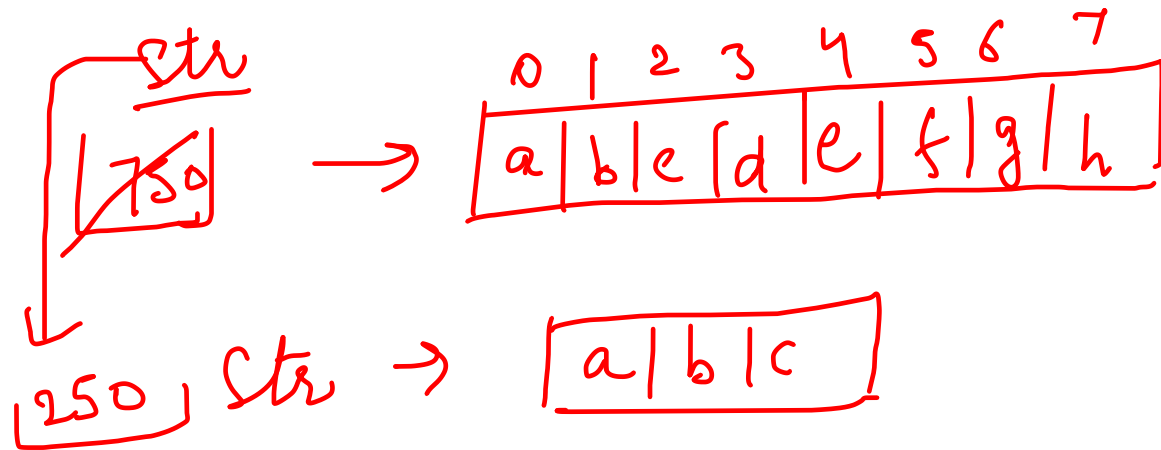
→ `str.contains("de");` T

→ `str.contains("bde");` F

a	b	c	d	e	f	g	h	i
0	1	2	3	4	5	6	7	8

→ it will check whether given str is present in your main string.

How strings are stored?



String `str = "abcdefgh"`;
`str = "abc"`;

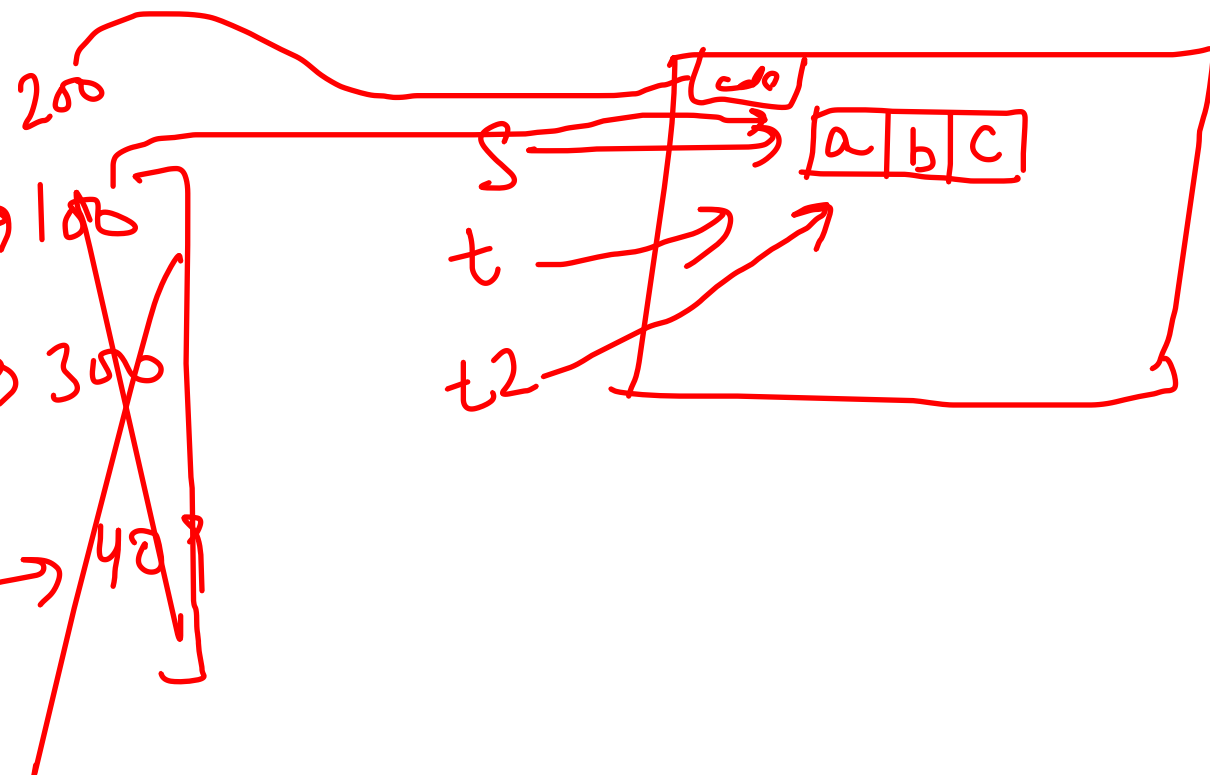
Strings in java are immutable.
↳ means we can't change the

elements of a string.

see `charAt(i)`

String Pool

String s = "abc"; → 100
String t = "abc"; → 300
String t2 = "abc"; → 400



Strings having same element refer to a single string.
No new string will be created.

→ memory efficient

Reference change - allowed
Content change - not allowed.

str = "abc"

str = "abc" + "def"

→ abcdef

→ str.concat("ghi");

o/p → abcdefghi

Comparison of non-primitives

arr1[] = {1, 2, 3};

arr2[] = {1, 2, 3};

arr1 →

1	2	3
---	---	---

arr2 →

1	2	3
---	---	---

150

arr2[] = arr1

100 ≠ 150

address will get compared
not content.

arr1[i] == arr2[j]

In case of strings, the o/p will be equal due to string pool concept.

To compare content, we use .equals.

```
arrays.sort(arr);
```

```
int sum = 0;
```

```
int num = 1;
```

```
int added = 0;
```

```
while(added < k){
```

```
    if(arrays.binarySearch(arr, num) < 0){
```

```
        sum += num;
```

```
        added++;
```

```
    }
```

```
    num++;
```

```
}
```

```
return sum;
```