
FACE

Strings

Array of Character

Example:

```
arr_size = 10
char str_char_arr[] = new char[arr_size];
str_char_arr[0] = 'R‘;
str_char_arr[1] = 'a‘;
str_char_arr[2] = 'm‘;
str_char_arr[3] = 'a‘;
str_size = 4;
```

Printing String

```
fSystem.out.print(str_char_arr);
{
    System.out.print(str_char_arr[idx]);
}
```

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Strings

```
String str = new String("Rama");
System.out.print(str);
```

(OR)

```
String str = "Rama";
System.out.print(str);
```

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Strings – In Built Functions

Length

```
String str = "Rama";
int str_len = str.length();
System.out.print(str_len);
```

Index

```
String str = "Rama";
char   ch  = str.charAt(2);
System.out.print(ch);
```

Comparison

```
String str1 = "Rama";
String str2 = "Ravan";
if(str1.equals(str2) == true){
    System.out.print(“Matched");
}
else{
    System.out.print(“Don't match");
}
```

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Strings – In Built Functions

To Upper Case

```
String str1 = "rama";
System.out.println(str1.toUpperCase());
```

To Lower Case

```
String str2 = "RAMA";
System.out.println(str2.toLowerCase());
```

Remove leading and trailing spaces

```
String str = "  Hello Folks  ";
System.out.println(str.trim());
```

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Strings – In Built Functions

Sub-string

```
String str = "Rama";
String sub_str = str.substring(1,2);
System.out.print(sub_str);
String sub_str = str.substring(2);
System.out.print(sub_str);
```

Concatenation

```
String str1 = "Hello ";
String str2 = "World";
System.out.println(str1.concat(str2));
(OR)
System.out.println(str1 + str2);
```

"String" logical representation
char array[], str_len

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Predict the Output

```
class Main{
    public static void main(String[] args) {
        String str = new String("Welcome to Java Programming");
        int str_len = str.length();
        System.out.println(str_len);
        System.out.println(str.substring(10));
    }
}
```

Output:

A. 27

Java Programming

B. 20

Java Programming

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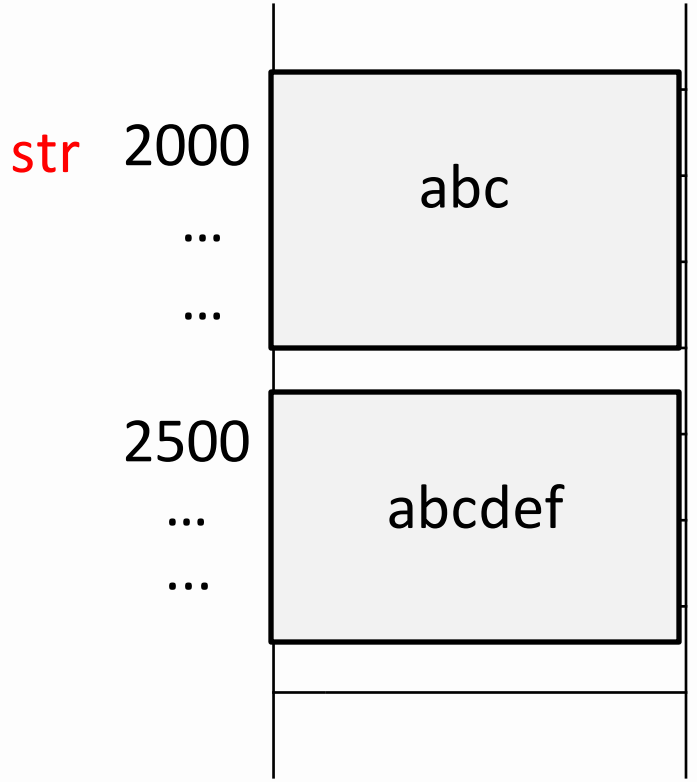
Strings – Concatenation

```
String str = "abc"
str = str + "def"
System.out.print(str);
```



~~Java "String" for update/modification~~

For update/modification "StringBuilder" / "StringBuffer"

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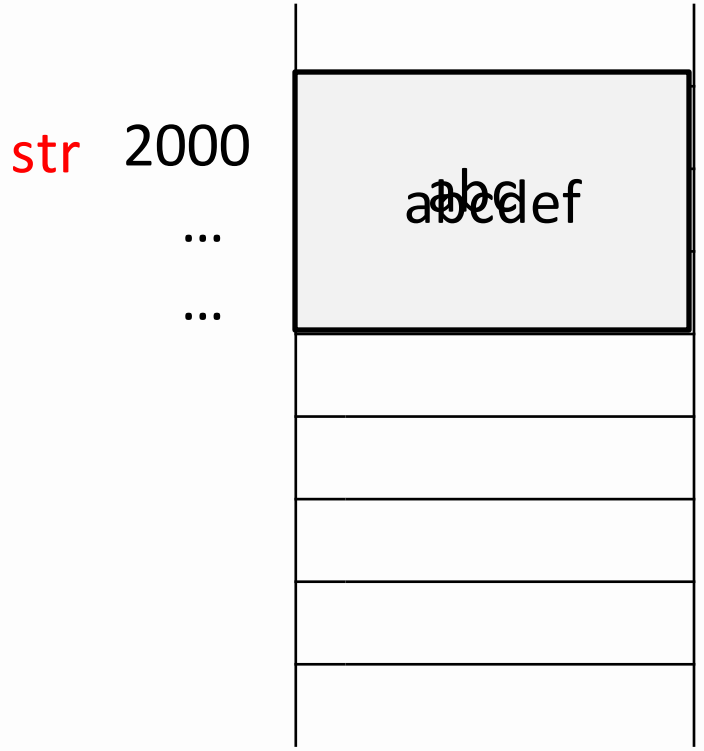
StringBuilder

- StringBuilder sb = new StringBuilder("abc");
- sb.append("def");
- System.out.print(sb);



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Print 2nd character alone

```
StringBuilder sb = new StringBuilder("abc");

System.out.print(sb.charAt(1));
```

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Change the first character as ‘z’

```
StringBuilder sb = new StringBuilder("abc");

System.out.print(sb.setcharAt(0, ‘z’));
```

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StringBuilder – In Built Functions

Length

```
StringBuilder sb = new StringBuilder("Rama“);
int str_len = sb.length();
System.out.print(str_len);
```

Index

```
StringBuilder sb = new StringBuilder("Rama“);
char   ch  = sb.charAt(2);
System.out.print(ch);
```

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StringBuilder – In Built Functions

Sub-string

```
StringBuilder sb = new StringBuilder("Rama“);
String sub_str = sb.substring(2,3);
System.out.println(sub_str);
sub_str = sb.substring(1);
System.out.println(sub_str);
```

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Predict the Output

```
class Main{
  public static void main(String args[]){
    String s = 50 + 30 + "Sachin"+ 20 + " " + 30 + 40 + 40;
    System.out.println(s);
  }
}
```

Output:

A. 80Sachin20 304040

B. 80Sachin20 110

C. 80Sachin130

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Predict the Output

```
class Main{
    public static void main (String[] args) {
        StringBuilder sb = new StringBuilder("Welcome");
        sb.append(" to programming..");
        sb.setCharAt(6, 'Z');
        System.out.print(sb);
    }
}
```

Output:

A. Welcome to programming..

B. WelcomZ to programming..

C. WelcomZ

D. Error

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Which of the following is not a method of Strings?

A. CharAt()

B. append()

C. setCharAt()

D. Both append() and setCharAt() 

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THANK YOU

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