01

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→ String
→ StringBuffer
→ StringBuilder

String s = "Hello"; → String Pool

String s = new String("Hello"); → Heap

```
class String
{
    [] → Method
    []
    []
}
```

1) char charAt(int index)
2) int length()

```
String s = "HELLO";
for(int i=0; i< s.length(); i++)
{   s.o.p(s.charAt(i))
}
```

s = LTIMINDTREE

c[] | | | M | I | N | D | | (0 1 2 3 4 5 6)

3) void getChars(sourceStart, sourceEnd, target, targetStart)

```
char[] c = new char[100];
s.getChars(3,6,c,2);
```

4) byte[] getBytes()

5) char[] toCharArray()

String = "ABCD"

byte[] | 65 | 66 | 67 | 68 | (0 1 2 3)

```
String s=" AB  CD";
char[] c = s.toCharArray()
```

c | A | B | | C | D |

```
int count=0;
char ch;
s=scan.nextLine();
for(int i=0; i< s.length(); i++)
{
    ch=s.charAt(i);
    if(ch=='A' || ch=='O' || ch=='E' || ch=='e' || ch=='I'
       || ch=='i' || ch=='O' || ch=='o' || ch=='U'
       || ch=='u')
    {
        count++;
    }
}
s.o.p("No of AEIOU:" +count);
```

6)

```
String s1 = new String("Hello");
String s2 = new String("Hello");
```

s2 = "Hello"
s1 = "Hello"

s1 [1000], s2 [1000] → Hello 1000

if(s1==s2) → True

s1 [1000] → Hello 1000; s2 [2000] → Hello 2000

if(s1 == s2) → False

6) boolean equals(String)
7) boolean equalsIgnoreCase(String)

if(s1.equals(s2)) → True

s1 → "Hello"   s2 → "hello"

if(s1.equalsIgnoreCase(s2)) → True

8) boolean startsWith(String)
9) boolean endsWith(String)

String s=" LtiMindTree"

if(s.startsWith("Lti")) → true

) int compareTo(String)

8) boolean startsWith(String)

9) boolean endsWith(String)

10) int compareTo(String)

-ve → s1 < s2

+ve → s1 > s2

0 → s1 == s2

String s = "LtiMindTree"

if (s.startsWith("Lti"))

↳ true

s1 = "AA D" (A = 65)

s2 = "ACBCDE" (C = 67)

-ve s1 < s2

67 − 65 = 2

11) int indexOf(String)

-1 → Not found

12) int lastIndexOf(String)

s = "What ever u do, do it well"; (0 1 2 3 4 ... 15)

s.indexOf("ever") → 5

s.indexOf("t") → 10

13) String substring(int start)

14) String substring(int start, int end)

15) String replace(char origin, char replacedBy)

16) String trim()

17) String toUpperCase()

18) String toLowerCase()

s = "LtiMindTree";

LtiMindTree

s = " LTI_MindTree "

String s = "Hello"

s = s + "world";

s = s + '!'

Hello 1000

world 2000

s 3000 → Hello world 3000

Hello world!

StringBuffer ✓

StringBuilder ✓

StringBuffer sb = new StringBuffer("Hello");

sb.append("world");

sb 1000

Hello world

t1 t2 t3

String StringBuffer

Thread Safe

sb.reverse()

s = "Hello, world, from, LTI"

str[0] str[1] str[2]

String[] str = s.split(",")

str[0] = "Hello"

str[1] = "world"

→ java.util

```
HashSet<Character> set = new HashSet<>();
char ch;
for(int i=0; i<s.length(); i++)
{   ch = s.charAt(i)
    set.add(ch);
}
s.o.p(set.size())
```

s="ANCABCD"


```
StringBuffer sb;
String st = scan.nextLine();
String[] strArr = st.split(" ");
String revW2="", revW="";
int count=0;
for(int i=0; i<strArr.length; i++)
{   if(strArr[i].trim().length()>0)
    {   sb = new StringBuffer(strArr[i]);
        sb.reverse();
        revW2 = revW2 + data + " ";
        revW2 = revW2 + sb + " ";
        count++;
    }
}
```

"what - - - Evel . . . . I . . do"

strArr[0] = "what"
→ 1 = " " (wr) ✗
→ 2 = " " ✗
3 = " "
→ n = "Eva" revE

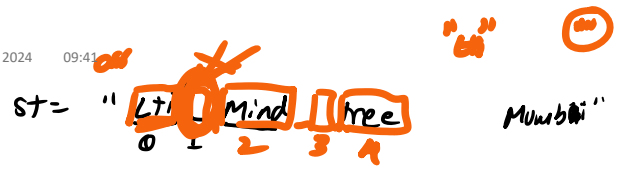
what Evel

what Evel

revW2 = "" + "what" + " "
= "what " + "Evel" + " "
= "what Evel "

tahW

rev = "" + "tahW" + " "
= "tahW_" + "revE" + " "
= "tahW revE"




```
String[] arr = st.split(" ")
for(int i=0;i<arr.length;i++)
{
    if(arr[i].trim().length()>0)
    {
        r1 = r1 + arr[i]+" "
        sb = new StringBuffer(arr[i]);
        r2 = r2 + sb.reverse()+" ";
    }
}
```

```
n = scan.nextInt();
scan.nextLine();
String[] str = new String[n];
for(int i=0; i<n; i++)
    str[i] = scan.nextLine();
String startLetter = scan.next();
int len = scan.nextInt();
scan.nextLine();
String searchStr = scan.next();

for(int i=0; i<str.length; i++)
    S.O.P("word:"+str[i]);
    S.O.P("Starts with \'"+startLetter+"\':"+str[i].startsWith(startLetter));
    S.O.P("Length greater than "+len+":"+str[i].length()>len);
    S.O.P("Contains \'"+searchStr+"\':"+str[i].indexOf(searchStr)>-1);
}
```

s = "Helloworld"
ss = "ow"
s.indexOf(ss)

04

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```
public static String check(String s)
{
    boolean valid = true;
    char ch = s.charAt(0);
    if(!Character.isUpperCase(ch))
        return "Invalid";
    ch = s.charAt(s.length()-1);
    if(ch != '.' && ch != '?' && ch != '!')
        return "Invalid";
    if(!s.contains("a") && !s.contains("e") && !s.contains("i") && !s.contains("o") && !s.contains("u"))
        return "Invalid";
    boolean digit = false;
    for(int i=0; i<s.length(); i++)
    {
        if(Character.isDigit(s.charAt(i)))
        {
            digit = true;
            break;
        }
    }
```

05

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