

Day 11

For Each 1D:

for (int v: a)

```

2 sysout(n);
}

```

Force each 2D:

from (ind ~~base~~; a)

```

for (int v : out)
    sysout(v);

```

one by one
batch print

String Functions:

→ non-primitive data type

→ array, linked list.

String s = "abc";

→ string literal

String s = new String ("Maru");

→ new keyboard.

Memory in JAVA:

① stack \rightarrow (Refers details) $(s, s1)$

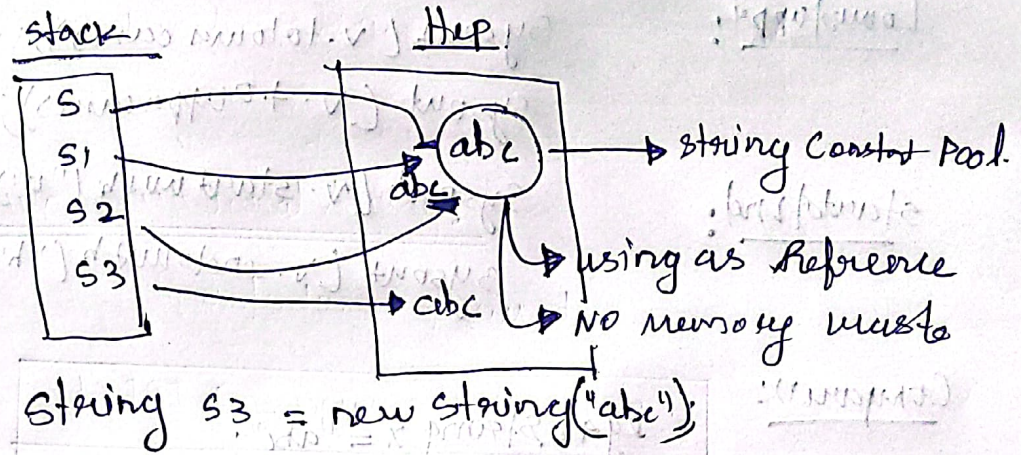
② Heap → (object creation details) - (abs.)

3) giving $s = \text{'abc'}$; \rightarrow (5) \rightarrow stack

→ Heap

Heap space = String constant pool (also)

String s2 = "abc";



String s1 = new String('abc');

new object new memory
allocation happens

STRING FUNCTIONS IN JAVA:

- 1) we can join two string
- 2) Extract from str
- 3) length of str
- 4) split of str

Method name

1) Small letter

2) Function (),

eg: String a = "welcome";

System.out (a.length());

1 Method

String a = "Mauri";

int y = a.length();

System.out (y);

2nd method

(len) length();

(Join) concat(); → eg2: String s1 = "Mauri";
String s2 = "K";

• operator (+) also used

System.out (s1.concat(s2));

OUTPUT:
[(string + int) → string + int
(int + string) → Arithmetic + string]

System.out (s1+s2);

System.out (s1+1+2);

System.out (1+2+s1);

eg3: String v = "LuminarTechLab";

Lower/upper:

sysout (v.toLowerCase());

sysout (v.toUpperCase());

Start/End:

sysout (v.startsWith("L"));

sysout (v.endsWith("B"));

} → Boolean output.

Compare:

eg4: String x = "abc";

String y = "ABC";

sysout (x.equals(y));

sysout (x.equalsIgnoreCase(y));

} → Boolean

(==) x not used in string

→ Ignore the case of letters

→ See only content

Trim (Remove whitespace)

String t = "Hello"; // = "Hello";

sysout (t.trim());

Extract:

(3)

welcome

String s = "welcome";

sysout (s.substring(3));

sysout (s.substring(0, 4));

Substring (starting index, ending index)

0 1 2 3 4 → start index

1 2 3 4 → ending index

only 1 index → starting index

2 index → Ending index

Included or contains:

```
string x1 = "Maru k";
```

```
sysout (x1.contains("Maru"));
```

Replace :

```
sysout (x1.replace("el", "xy"));
```