

Day 4 : Loops and Arrays

3.141596.....

Stack

int x 32 bits
5

char letter

'C'

String s

0x1

int y

5

Heap

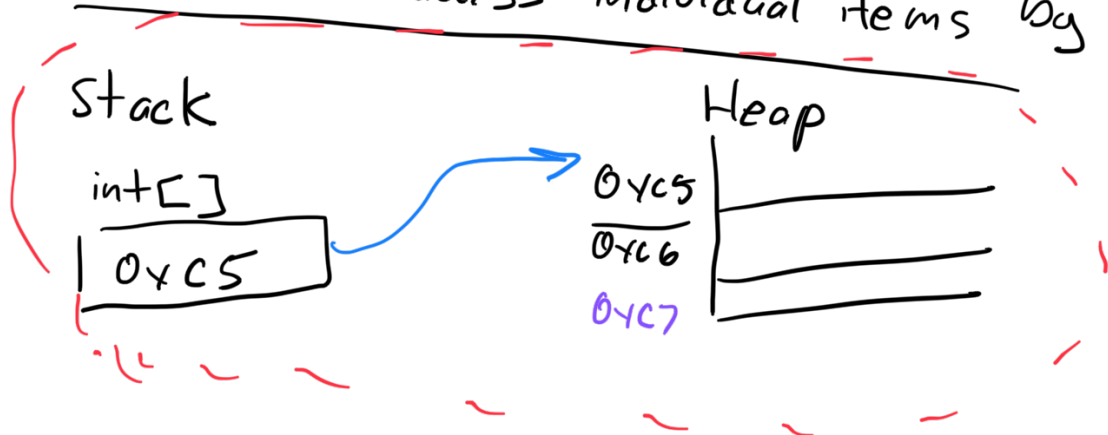
"Hello World"

0x1

0x2

Arrays

are a reference type
 which can store multiple values of
 any other type
 they are of fixed size
 you can access individual items by index



```
int[] quizScores = new int[19];
```

```
int[] homeworkScores = {0, 1, 2, 3};  
// Static initialization
```

```
int[] hws = new int[4];  
    hws[0] = 0;  
    hws[1] = 1;  
    hws[2] = 2;  
    hws[3] = 3;
```

Loops:

```
for (1 variab declaration; 2 Conditional; 3 increment) {  
    4 <loop body>  
}
```

= repeated

}
=

< Statement 0 >

< Statement 1 >

...

any boolean

x++

x=0 for (int x=0; x < 10; x++) {

Print "0"

System.out.println(x);

x=1

Print "1"

x=2

Print "2"

}