Day 3 - Java Array

06 July 2023 14:13

Arrays

Collection of Homogeneous Elements

numbers

numbers [0] [n-1] → ArrayIndexOutOfBoundsException

[1]

[2]

!

Declaration : C/C++ int a[10];

Java →

int a[] = new int[10];

↳ size

int []a = new int[10];

Arrays of other data types:

byte [] — short int long float double boolean {true, false}

char

* read 10 double values into array, print them in reverse order of insertion

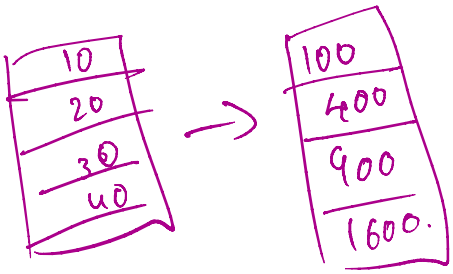
{1,2,3,4} o/p → {4,3,2,1}

* find the smallest element in array of n numbers.

* find ... numbers.

* find the sum, average of elements in array.

Square

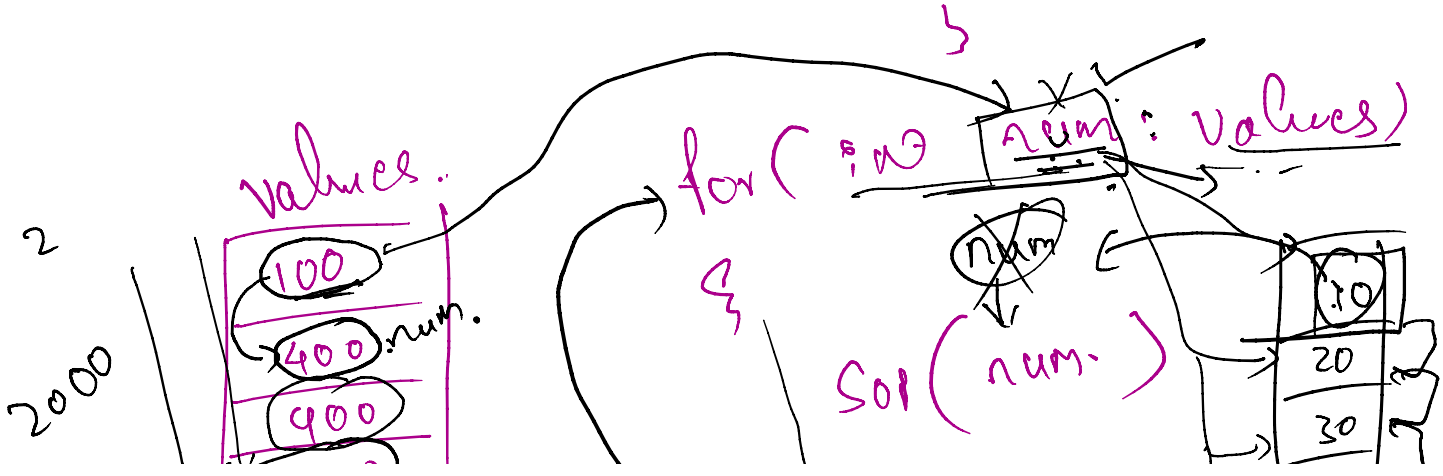


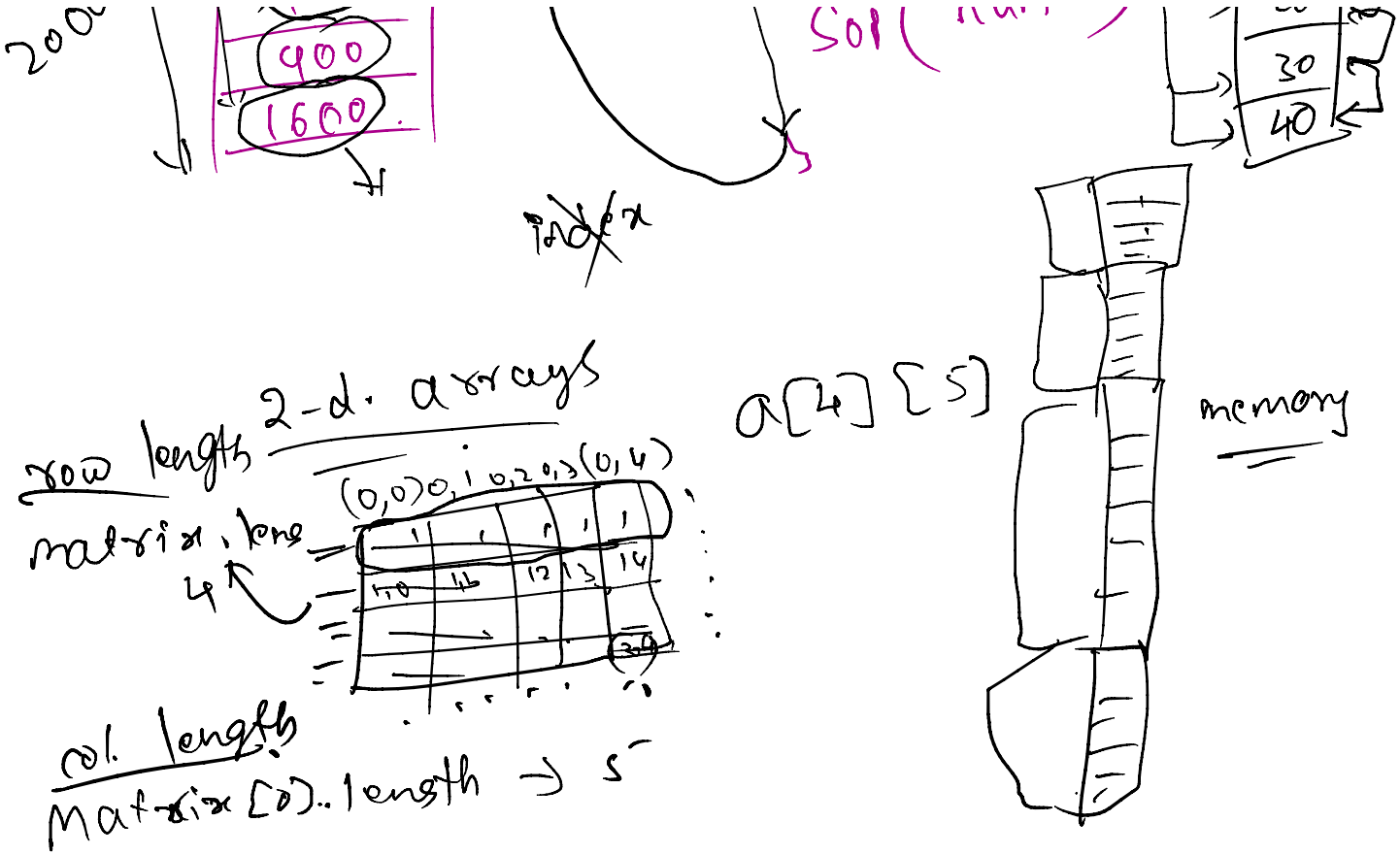
for-each loop

```
int []arrey = new int[10]..

for(int i=0; i< leg.
    i++)

for(int num : array)
{
Sout (num)
}
```





2-d. arrays

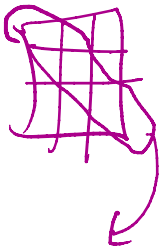
row length
matrix.length
4

col. length
matrix[0].length → 5

* for matrix, display row-wise sum.

1 2 3 4
5 6 7 8
9 10 11 12

row 1 sum 10
2 -> 26
3 = 42



* Total sum of matrix.

* Sum of principal diagonal elements

* Addition of two matrices. (Same size)

= [:]

* Smallest & largest elements & their position in matrix.

[i, j]
at
Point