

int [] a is same as  
int a[].

length is a property of  
array not method

★ Array: it is a collection of similar kind of datatypes.  
array got continuous allocation of memory.  
once array size is fixed it cannot be changed.

```
class ArrayDemo {  
    public static void main (String args[]) {  
        int a[];  
        a = new int [5];  
        int b[] = { 10, 20, 30, 40, 50 };  
        int c[] = new int [5];
```

C[0] = 10

C[1] = 5

C[2] = 15

C[3] = 25

C[4] = 45

10	5	15	25	45
0	1	2	3	4

C[5] will generate  
error.

When we try to access an index which  
doesn't exist it will generate an exception.

```
for (int i=0; i<C.length; i++)  
    System.out.println(C[i]);
```

K.W

Q → write a program to print maximum and minimum from array

Q → write a program to record max and second minimum from  
array

(Take array size 10)

Q → write a program to find a number in array.  
(no repetitions)

(optional)

0 → with a program to demonstrate method overloading, one method should be overloaded to calculate area of square, rectangle, triangle

\* 2D-Array:

→ compulsory

Java →  $\text{int } a[R][C];$

$\text{int } a[R][C] = \text{new int}[3][C];$

$\text{int } b[R][C] = \text{new int}[2][2];$

$\text{int } c[R][C];$

$c = \text{new int}[5][C];$

$c[0] = \text{new int}[5];$

$c[1] = \text{new int}[4];$

$c[2] = \text{new int}[3];$

$c[3] = \text{new int}[4];$

$c[4] = \text{new int}[2];$

~~import java.util.Scanner;~~

~~class array2d~~

~~{~~

~~public static void main(String args[]) {~~

~~int a[R][C];~~

~~a = new int[3][C];~~

~~a[0] = new int[3];~~

~~a[1] = new int[2];~~

~~a[2] = new int[4];~~

~~for (~~

~~for (~~

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