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Matrix, Jagged & Anonymous Arrays; Arrays Class in Java

=> Types of Arrays :-

1. Single Dimensional Array

-> 1D Array

2. Multi-Dimensional Array

-> 2D Array

-> 3D Array

-> 4D, 5D, 6D.... Array

-> Zic-Zac Array

3. Anonymous Array

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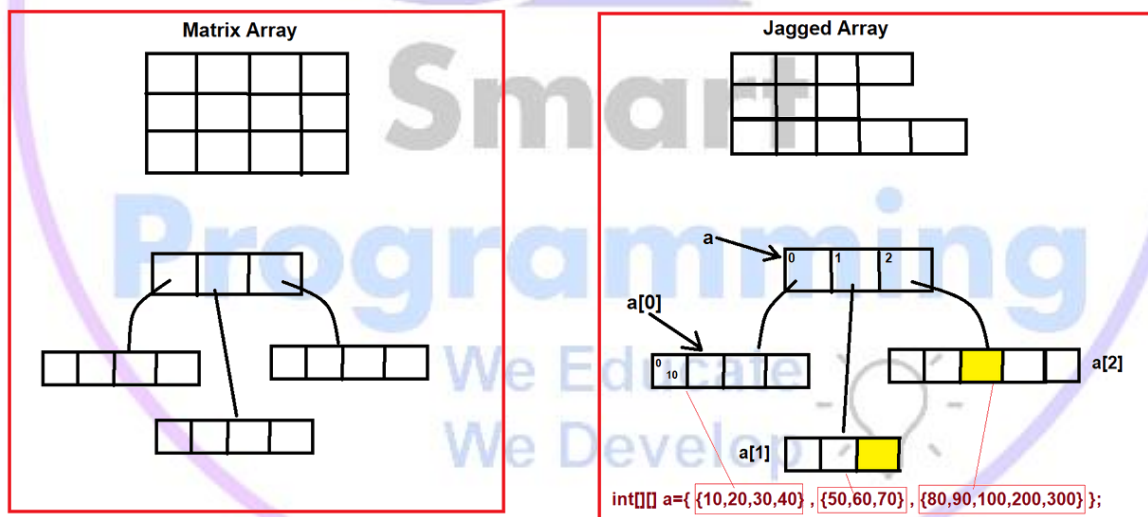
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=> Multi-Dimensional Array :

-> Multi-Dimensional array can be Matrix Array or Jagged Array

-> Matrix Array : The array in which there is fixed number of rows & columns

-> Jagged Array : The array in which number of columns can be changed



=> Anonymous Array :-

-> An array that does not have any name is known as Anonymous Array

-> For example :

```
new int[] {10,20,30,40};
```

-> Use : Anonymous arrays are created when we want to use them instantly or only for single time

-> Anonymous arrays are used as an argument in the method

-> Anonymous array can be single dimensional or multi-dimensional array

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=> Different ways to print/iterate an array elements :-

-> for loop

-> while loop

-> for-each loop

```
for(type var:array)
{
    //print(var)
}
```

-> Limitations of for-each loop :-

1. It does not track the index position of an array
2. It only iterates the elements in forward direction
3. It cannot be used to modify the array

=> Arrays class :-

- > Java has created an "Arrays" class in "java.util" package
- > Arrays class directly inherits the Object class
- > "Arrays" class provides the static methods only



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