

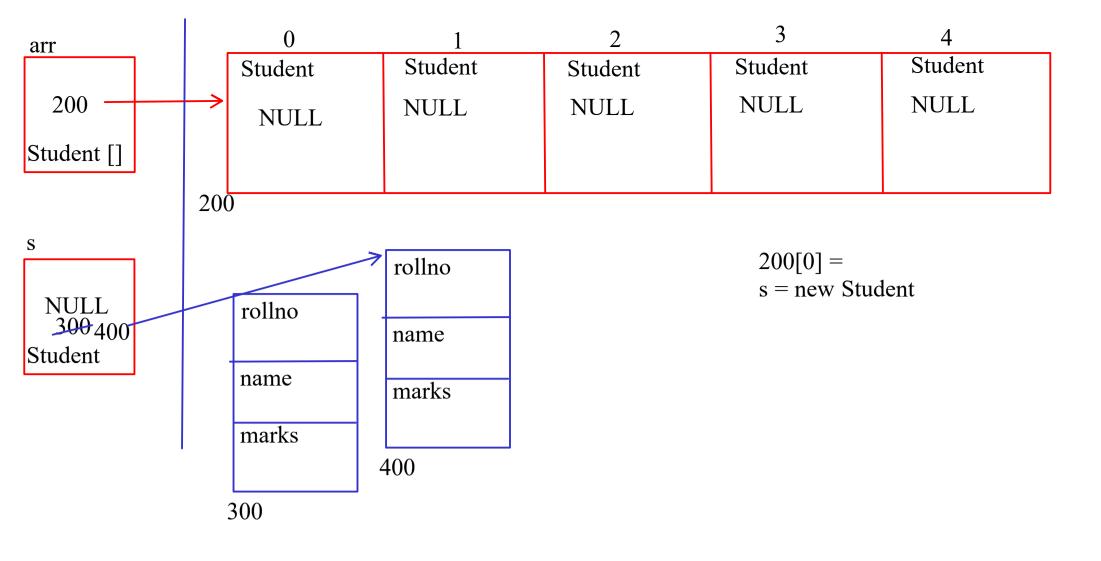
marks

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Array is java are of 3 types

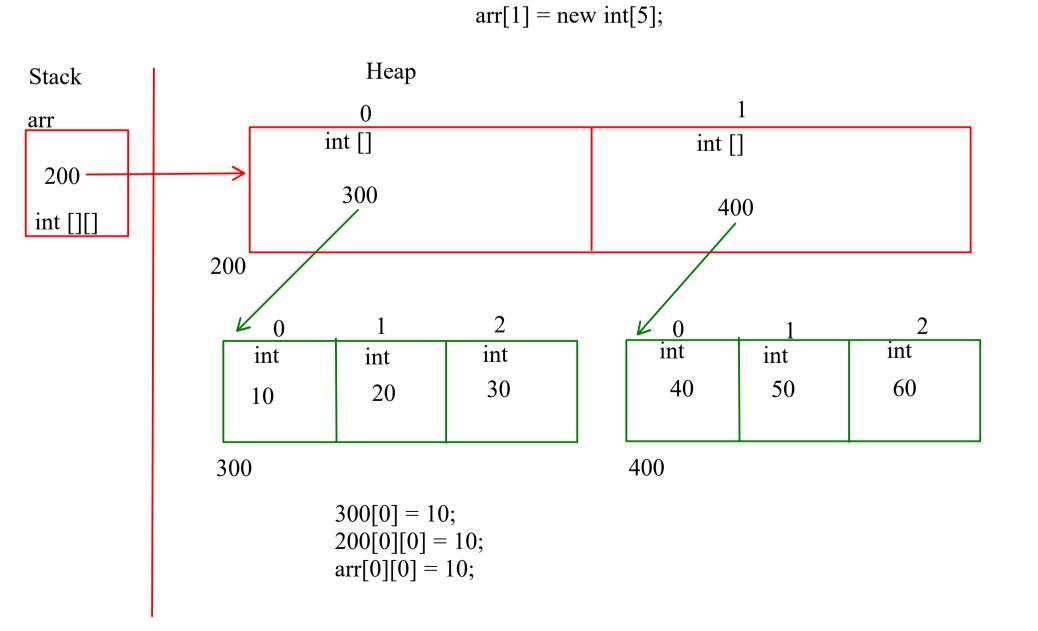
- 1. Single Dimensional
- 2. Multi Dimensional
- 3. Ragged Array

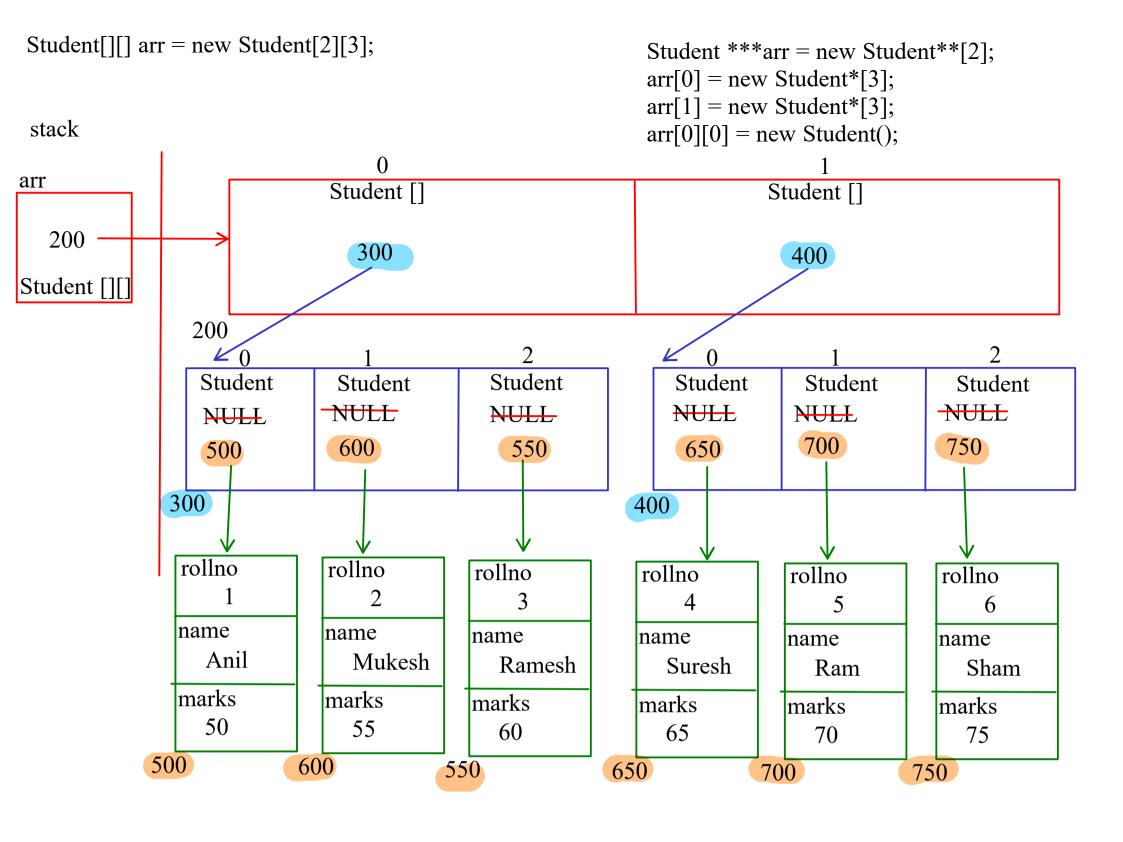
Primitive types int arr[2][3];

//JAVA int arr[][] = new int[2][3];

//CPP int \*\*ptr = new int\*[2]; arr[0] = new int[3];

int arr[2][3];





```
int arr[2][3];
int arr[] = new int[5];
                                            int arr[5];
arr[0] = 10;
                                            arr[0] = 10;
                                                                               arr[0][0] = 10;
int arr[][] = new int[2][3];
                                            int *ptr = new int[5];
                                                                               int **ptr = new int*[2];
                                            ptr[0] = 10;
                                                                               ptr[0] = new int[3];
int arr[][] = new int[2][];
                                                                               ptr[1] = new int[3];
arr[0] = new int[3];
                                            int **ptr = new int*[5];
                                                                               ptr[0][0] = 10;
arr[1] = new int[5];
                                            ptr[0] = new int(10);
                                                                               int ***ptr = new int**[2];
                                                                               ptr[0] = new int*[3];
                                                                               ptr[1] = new int*[5];
                                                                               ptr[0][0] = new int(10);
```

for(Student [] ele : arr)

for(Student s : ele)

s.display();

for(i)

for(j)

arr[i][j].display();

## ## final Keyword

- 1. Variables
  - It can be initialized after the declaration
  - Once initialized we cannot change the value inside it.

## 2. Fields

- We can declare the fields of the class as final,
- they can be initialized in field initializer or object initializer or constructor
- Once initialized we cannot change the value inside it.
- we cannot initialize the final fields in the setters, getters or facilitators
- 3. Methods
- 4. Class

```
final Student s;
s = new Student();
s = new Student();
```

```
Non-Primitive (Reference type)
array
class
interface
enum

Student [ ] arr = new Student[5];

enum EMenu {
    interface Shape {
        class Student {
        }
        }
    }

Student [ ] arr = new Student[5];
```

## # Static

- We can declare the
- 1. Fields
  - If fields are made static then the memory for the fields will be given on the method area only once at the time of class loading.

## 2. Methods

- If methods are static then they are designed to be accessed on classname using . operator
- They can access only the static fields of the class, they cannot access the non static fields of the class
- static methods do not get this reference

