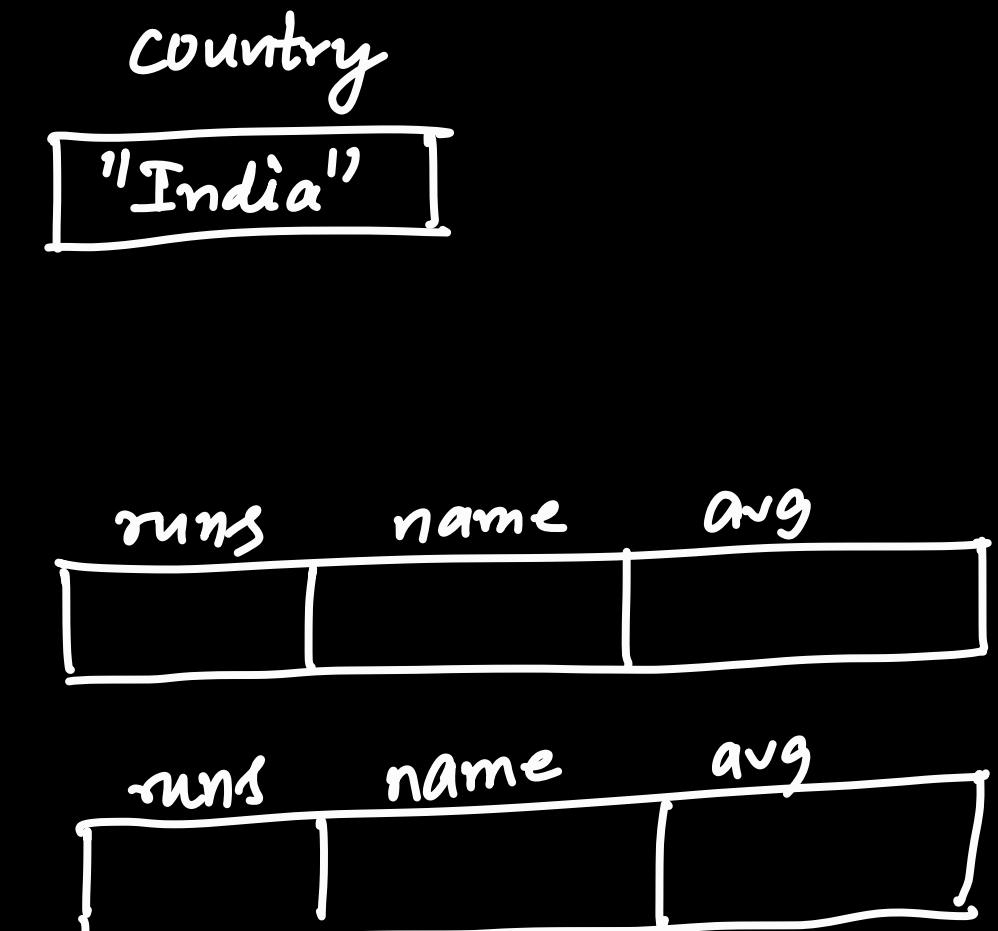


Shallow copy of Object

final Keyword

static Keyword

```
class Cricketer{  
    static String country = "NZ";  
    int runs;  
    String name;  
    double avg;  
}  
  
public class FinalAndStatic {  
    public static void main(String[] args) {  
        ✓Cricketer c1 = new Cricketer();  
        // c1.country = "England"; Error  
        ✓Cricketer c2 = new Cricketer();  
        ✓c1.country = "India";  
        ✓System.out.println(c2.country);  
    }  
}
```



static Methods

import statement

Ques: Complex Number Class

```
class Complex Number {  
    int x;  
    int y;  
    // Constructor  
    // print  
    // add  
    // multiply  
}
```

$$z_1 = x_1 + iy_1$$

$$z_2 = x_2 + iy_2$$

$$\begin{aligned} z_1 \times z_2 &= x_1x_2 + i x_1y_2 + i y_1x_2 - y_1y_2 \\ &= (x_1x_2 - y_1y_2) + i(x_1y_2 + x_2y_1) \end{aligned}$$

Ques: Complex Number Class

$$\frac{a+ib}{c+id} \times \frac{c-id}{c-id} = \frac{ac - iad + ibc + bd}{c^2 + d^2} = \frac{ac + bd}{c^2 + d^2} + i \left(\frac{bc - ad}{c^2 + d^2} \right)$$

Ques: Fraction Class

Ques: Create your own ArrayList



H.W.: Design Parking System

Leetcode 1603

Inheritance





THANKYOU
Cuties