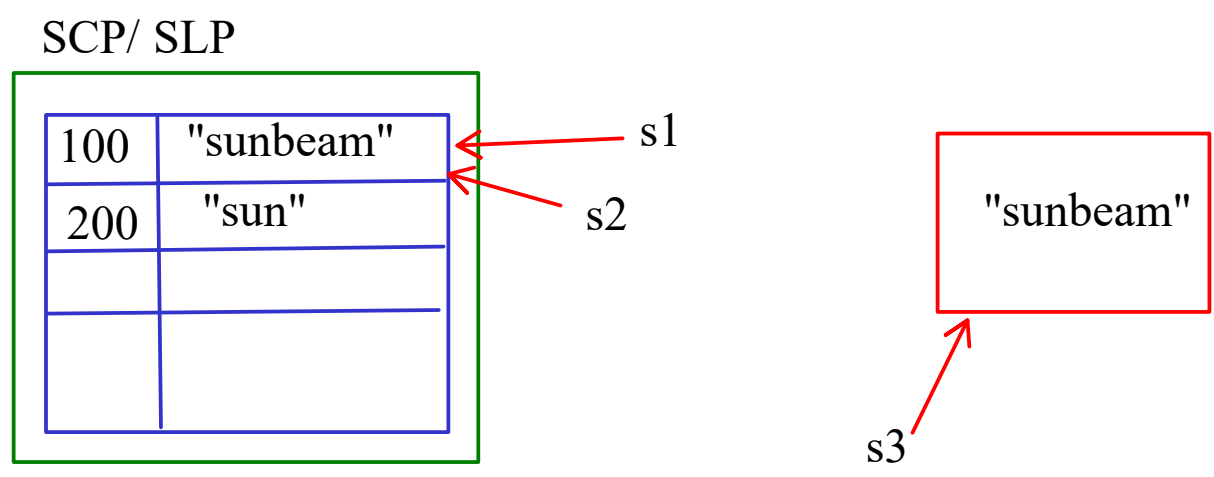
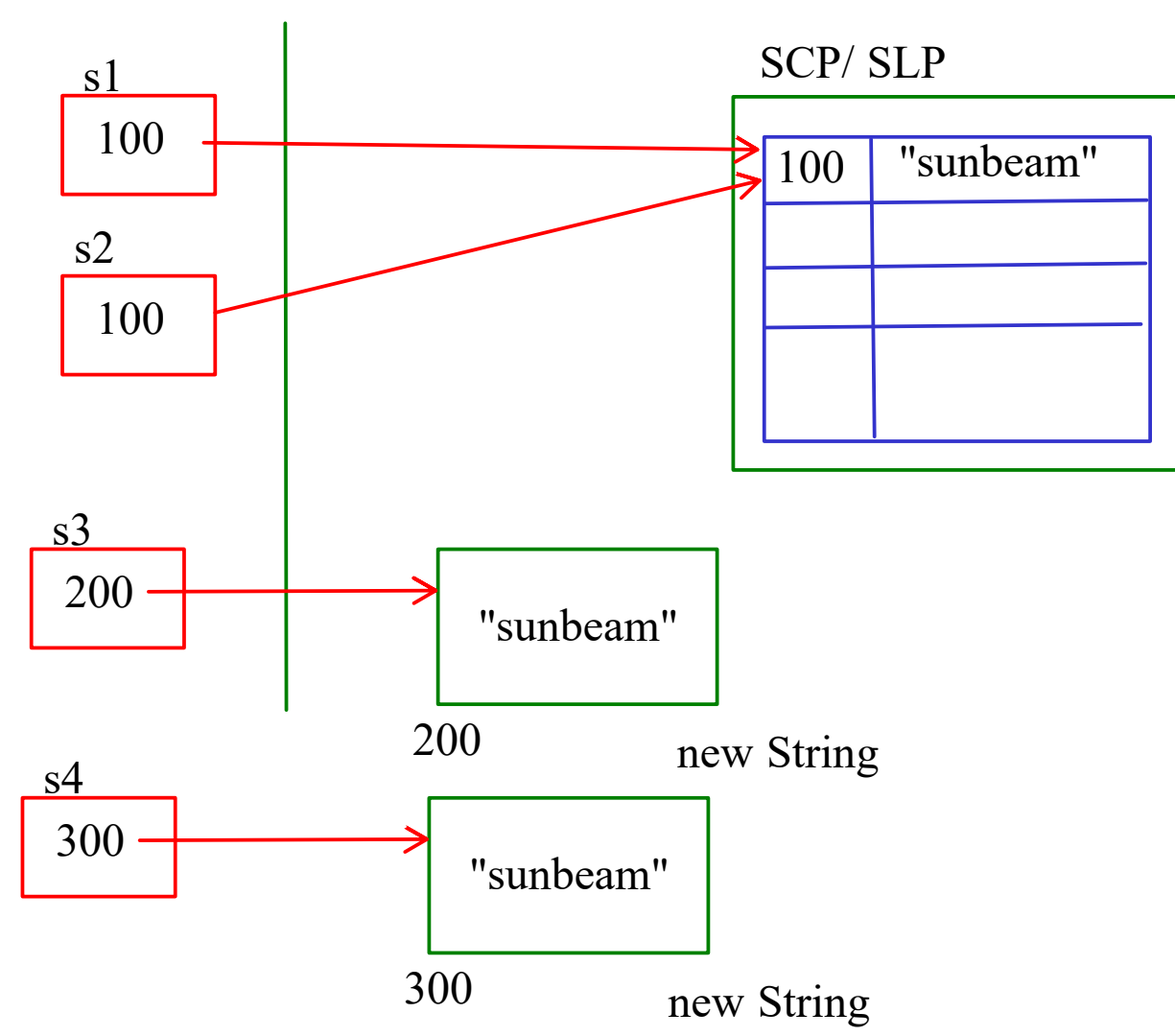
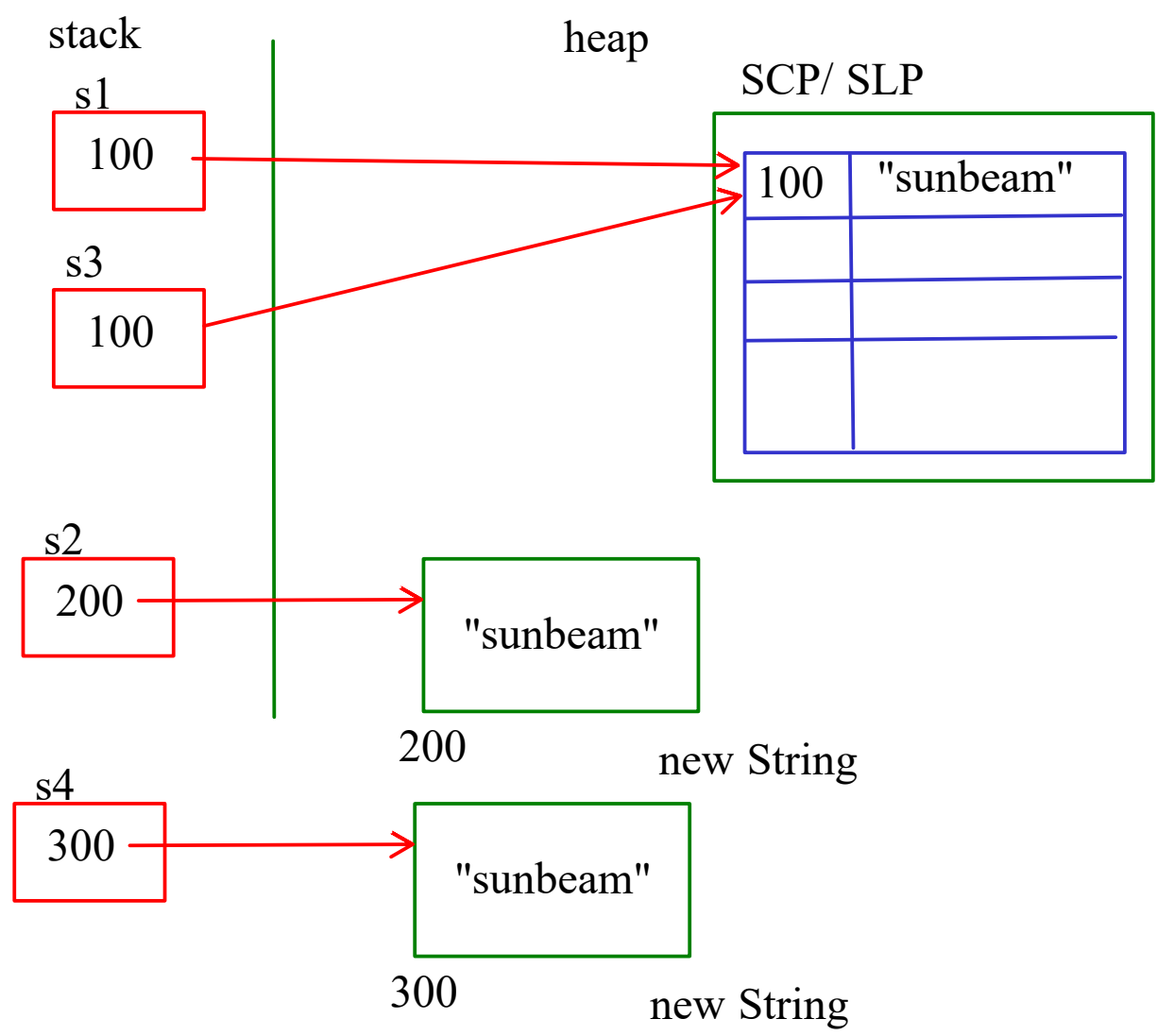


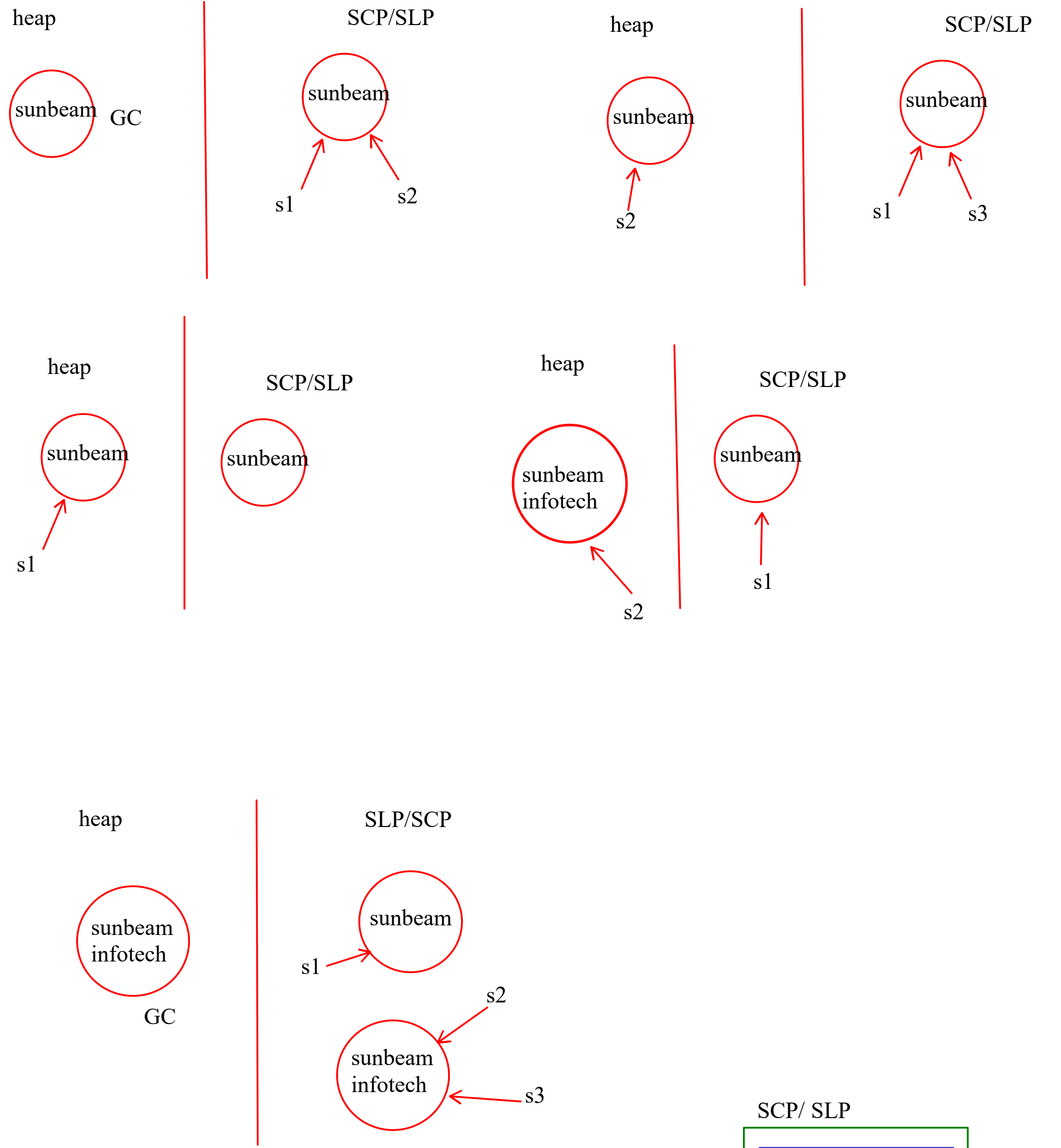
<pre>int n = sc.nextInt(); Fruit[] arr = new Fruit[n]; int index = 0; 1. if(index<n){ arr[index] = new Apple(); arr[index].accept(); index ++; } 2. if(index<n){ arr[index] = new Mango(); arr[index].accept(); index ++; } 3. if(index<n){ arr[index] = new Orange(); arr[index].accept(); index ++; }</pre>	<pre>abstract class Fruit{ name color weight isFresh = true; Fruit(String name){ this.name = name; } void accept(){ } abstract String taste(); }</pre>	<pre>class Apple{ Apple(){ super("Apple"); } } class Orange{ Orange(){ super("Orange"); } } class Mango{ Mango(){ super("Mango"); } } for(Fruit f:arr) if(f.taste().equals("sour")) f.setIsFresh(false);</pre>
---	---	---

## Interface	Throwable	1. try	try(){
- Exception	- Error	2. catch	} catch(){
-	- Exception	3. throw	} finally{
	1. Checked	4. throws	
	2. UnChecked	5. finally	}

Custom Exceptions

String name = "sunbeam";	Generics		Literals/constants
	- type parameters		1.boolean
	- Generic Iterfaces		2. character
	Collection Framework	1.5 days	3. integral
	Java 8 interface	2 days	4. floating-point
	Functional Interface	1 day	5. string
	Lambda Expression	1.5 days	6. null literal
	Stream API	1 day	
	Java File IO	1 day	
	Annotations, Reflection,		
	Local and Nested class,		
	Enum		boolean isFresh=true
	MultiThreading		char ch = 'a';
			String name = "sunbeam"; // string literal
			Date d = null





```
class Voter{
String vid;
String name;
String Address;
String mobile;
String city;
}
```

1 crore
10 lakhs -> Voters
10 lakhs -> vid objects
10 lakhs -> name objects will be < 10 lakh
10 lakhs -> address objects will be <10 lakh
10 lakhs -> mobile objects
10 lakhs -> city 1 object

SCP/ SLP

100	"sunbeam"
	"infotech"
	"beam"
	"sun"

```
enum ArithmeticOperations {  
    EXIT, ADD, SUB, MUL  
}
```

```
final class ArithmeticOperations extends Enum{  
    public static final ArithmeticOperations EXIT;  
    public static final ArithmeticOperations ADD;  
    public static final ArithmeticOperations SUB;  
    public static final ArithmeticOperations MUL;  
    private static final ArithmeticOperations [] ENUM$VALUES;  
  
    private ArithmeticOperations(String name, int ordinal){  
        super(name,ordinal);  
    }  
    static{  
        EXIT = new ArithmeticOperations("EXIT",0);  
        ADD = new ArithmeticOperations("ADD",1);  
        SUB = new ArithmeticOperations("SUB",2);  
        MUL = new ArithmeticOperations("MUL",3);  
        ENUM$VALUES = new ArithmeticOperations[] {EXIT,ADD,SUB,MUL};  
    }  
  
    public static ArithmeticOperations[] values(){  
        return ENUM$VALUES;  
    }  
  
    public static ArithmeticOperations valueof(String name){  
        for(ArithmeticOperations e:ENUM$VALUES)  
            if(e.name().equals(name))  
                return e;  
    }  
}
```

```
class Constants{  
    public static final String BASE_URL = "http://sunbeaminfo.com:4200/";  
    public static boolean LOGIN_STATUS = false;  
}
```

upcasting
downcasting

class
object
reference