

Exemplos em Java



Programação Orientada a Objetos



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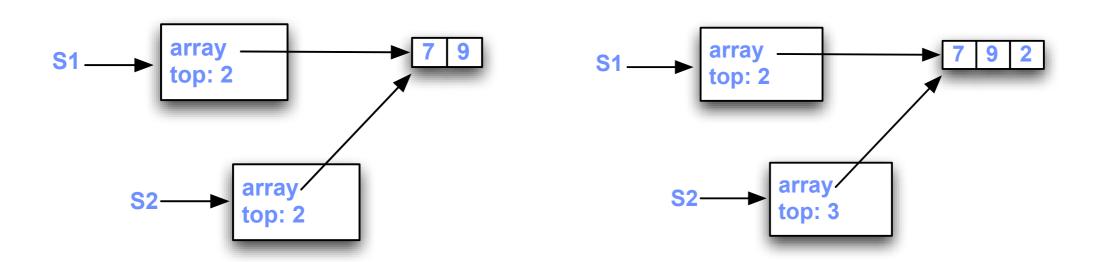
Método Clone



```
class StackVector implements Stack, Cloneable {
  private int top = 0;
  private int[] array;
  public StackVector (int n ) { array = new int[n];}
  public StackVector () { array = new int[100];}
  public void push (int v) {...}
  public int pop () {...}
  public boolean isEmpty() {...}
  public StackVector clone () {
       try {
          return (StackVector) super.clone();
       catch (CloneNotSupportedException ex) {
          //não deve acontecer nunca!
          throw new InternalError(ex.toString());
       }
```

Usando o método clone

```
StackVector s1 = new StackVector ();
s1.push(7);
s1.push(9);
StackVector s2 = s1.clone();
s2.push(2);
```



Método Clone: cópia em profundidade

```
class StackVector implements Stack, Cloneable {
  private int top = 0;
  private int∏ array;
  public StackVector (int n ) { array = new int[n];}
  public StackVector () { array = new int[100];}
  public void push (int v) {...}
  public int pop () {...}
  public boolean isEmpty() {...}
  public StackVector clone () {
       try {
          StackVector copy = (StackVector) super.clone();
          copy.array = array.clone();
          return copy;
       catch (CloneNotSupportedException ex) {
          //não deve acontecer nunca!
          throw new InternalError(e.toString());
```