

Balance Cadena

Balancear una cadena que tiene
Parentesis

Metodo

```
public static boolean verificarBalance (String cadena){  
    Stack<Character> Pila = new Stack<>();  
    //Recorrer Cadena
```

```
    for (char character: cadena.toCharArray()) {  
        if (character == '(' || character == '[' || character == '{') {  
            Pila.push(character);  
        } else if (character == ')' || character == ']' || character == '}') {  
            if (Pila.isEmpty()) {  
                return false;  
            }  
            char ultimoParent = Pila.pop();  
            if (character == ')' && ultimoParent != '(' || character == ']' && ultimoParent != '[' || character == '}' && ultimoParent != '{') {  
                return false;  
            }  
        }  
    }  
    return Pila.isEmpty();  
}
```

Hash

```
public class Hash {
```

```
    private Map<Integer, List<String>>  
    buckets;
```

```
    public Hash () {
```

```
        buckets = new HashMap<>();  
    }
```

```
    public void insertor (String cadena) {  
        int hash = CalculadorHash (cadena);  
        if (! buckets.containsKey (hash)) {  
            buckets.put (hash, new ArrayList<>());  
        }
```

```
        buckets.put (hash, new ArrayList<>());  
        bucket.get (hash).add (cadena);  
    }
```

```
    public List<String> obtenerBucket  
        (int numBucket) {  
        return buckets.get (numBucket);  
    }
```

```
    private int calculadorHash (String cadena) {  
        return palabra.length () / 5;  
    }
```

```
}
```