

(1)

11 pomisću dos elemenon na novu tabelu

// $\text{dim TcSbl} = 2 * \text{dim TcSbl} \rightarrow \text{problema: dim. h'ad l' un}$
 $\text{colte}) \quad h = \text{primo}$

```
val newTable = arrayOfNulls<
    Node<Any>?> (dimTable)
    an Array<Node<E>?>
```

↓ desenvolver próximo passo
de verificação → ver livro

```
for (i in table[!(.indices)]) {
```

var current = table[i]

```
while (current != null) {
```

① $task!![i] = task!![i].next$

val newPon = index (current element)

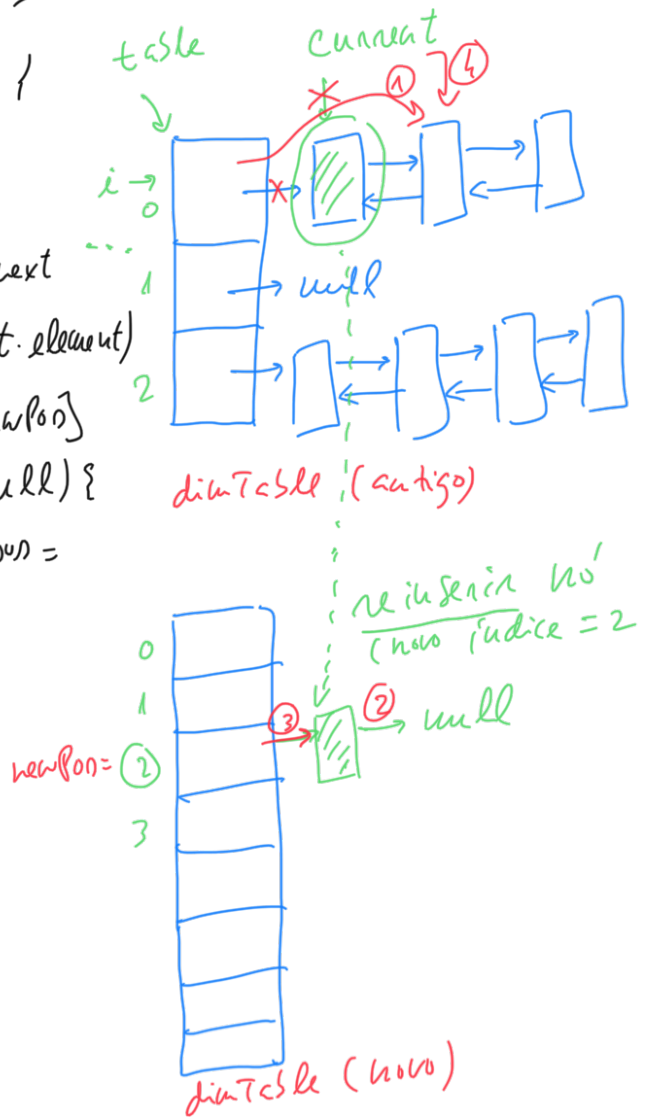
② current-text = newTable[newPos]

```
if (newTosSll[newPos] != null) {  
    | newPos[newPos]!!.previous =  
    | current  
}
```

(3) newTble[newPos] = current

current = table!![i]

} New trial

$$\{ // \vdash \wedge$$


```
class HashSet<E> : MutableSet<E> {
```

2.

```
    override fun iterator<E>() {
```

```
        return MyIterator()
```

```
    }  
    private inline class MyIterator : Iterator<E> {
```

```
        var currentPosition: Int = -1
```

```
        var nodeIt: Node<E>? = null
```

```
        var currentElement: Node<E>? = null
```

```
        override fun hasNext(): Boolean {
```

```
            if (currentElement != null)
```

```
                return true
```

```
            // se não, c/ta currentElem com  
            // próximo elemento válido
```

```
            while (currentPosition < table!!.size) {
```

```
                if (nodeIt == null) {
```

```
                    currentPosition++
```

```
                    if (currentPosition < table!!.size)
```

```
                        nodeIt = table!![currentPosition]
```

```
                }
```

```
            } else {  
                currentElement = nodeIt
```

```
                nodeIt = nodeIt!!.next
```

```
                return true
```

```
            }
```

```
        }  
        return false
```

```
    }
```

andar de
bucket em
bucket

Iterar
nó do bucket
atual

criar instance, que tem acesso ao
this da outer class

→ não a
iterar

→ se tem
elemento → true

...
override fun next(): E {

3.

if (!hasNext())
throw NoSuchElementException()

val aux = currentElement.element

currentElement = null

return aux!!

}

} // HashSet