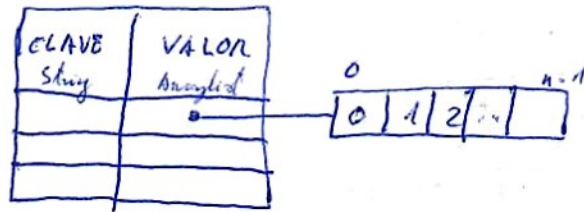
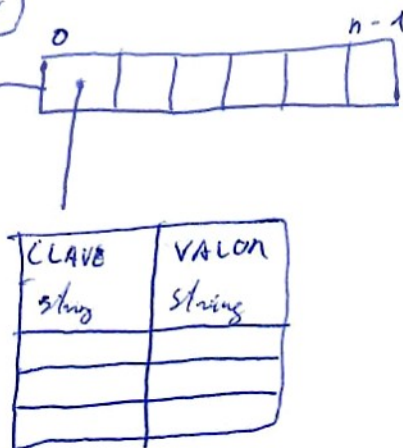


## Reducer

estructura Original



estructura Destino



```
public void Reducir () {
```

```
    AVLTree <Par <String, array list <Integer>>> aux = new AVLTree();
```

```
    for (Par <String, Arraylist <Integer>> parLine: estructura Original) {
```

```
        Par <String, arraylist <Integer>> parAux = aux.find (parLine);
```

```
        if (parAux == null) aux.add (parAux = new Par <> (parLine.getKey(), new arraylist <>()));
```

```
        parAux.getValue().addAll (parLine.getValue());
```

```
    }
```

```
    for (Par <String, array list <Integer>> parAux2 : aux) {
```

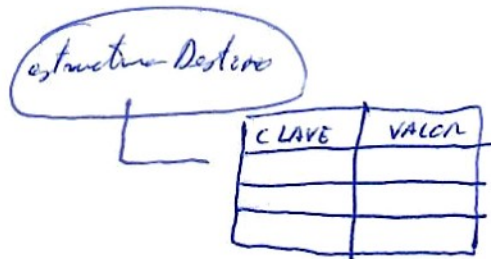
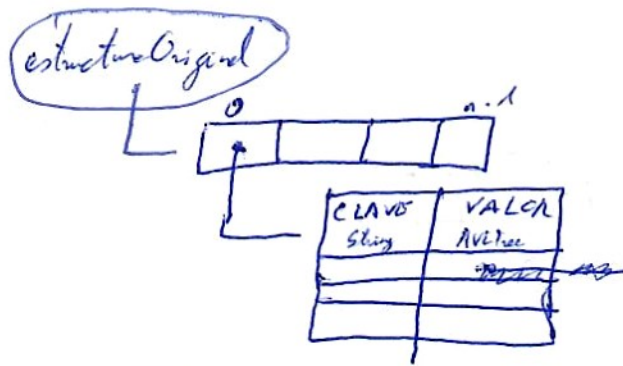
```
        estructura Destino.add (new Par <> (parAux2.getKey(), String.format ("%s2f", (double)
```

```
            Collections.min (parAux2.getValue())));
```

```
    }
```

```
}
```

## Dump Data



```
public void DumpData() {  
    for (Par < String, AVLTree < Integer > > par : estructuraOriginal) {  
        AVLTree < Integer > numeroCura = new AVLTree < > ();  
        for (Integer numero : par.getValue()) {  
            numeroCura.add(numero);  
        }  
        estructuraDestino.add(new Par < > (par.getKey(), numeroCura));  
    }  
}
```