

# OOP Java

## Code

```
String codice = regione.substring(0, 3)
.toUpperCase() + (centriXRegione.get(regione).size() + 1);
```

## List/Map

```
LinkedList<Cittadino> cittadini = new LinkedList<Cittadino>();
LinkedHashMap<String, LinkedList<Centro>> centriXRegione;
LinkedHashMap<String, Centro> centriXId;

public Piano() {
    centriXRegione = new LinkedHashMap<String, LinkedList<Centro>>();
    centriXId = new LinkedHashMap<>();
}

//list
cittadini.add(c)

//map
centriXId.put(codice, c);
centriXRegione.get(regione).add(c);

return centriXId.get(codiceCentro);
```

## Streams

```
// sort
return cittadini.stream().sorted(Comparator
    .comparing(Cittadino::getNome)).collect(Collectors.toList());
return cittadini.stream().sorted(Comparator
    .comparing(Cittadino::getDataDiNascita)).collect(Collectors.toList());

// filter
return cittadini.stream()
    .filter(c -> c.getEta() >= etaMinima).collect(Collectors.toList());
```

## files

```
File file = new File("10_Random");

try {

    Scanner sc = new Scanner(file);

    while (sc.hasNextLine()) {
        int i = sc.nextInt();
        System.out.println(i);
    }
    sc.close();
}
catch (FileNotFoundException e) {
    e.printStackTrace();
}
```