

Codificação: Mariana Bustina Sena Silva - 8P3063877 - 2138

*Diagrama 1.

```
public interface Collection {  
    public void equals() {  
    }  
    public void add() {  
    }  
}
```

```
public interface List extends Collection {  
    public String getList() {  
        return List;  
    }  
}
```

```
public class Pedido depends List {  
    public String Itens de linha;  
}
```

```
public abstract AbstractList implements List {  
    public void equals() {  
    }  
    public void add() {  
    }  
    public abstract String AbstractList() {  
        return AbstractList;  
    }  
}
```

```
public class ArrayList extends AbstractList {  
    public String getArrayList() {  
        return ArrayList;  
    }  
    public void add() {  
    }  
}
```


*Diagrama 2

```
public class Project {
```

```
    private String name;
```

```
    private String description;
```

```
    private Source[] source;
```

```
    private ReferenceSequence[] referenceSequence;
```

```
    private Feature[] feature;
```

```
    private Alignment[] alignment;
```

```
}
```

```
public class Source {
```

```
    private String name;
```

```
    private Sequence[] sequence;
```

```
}
```

```
public class Sequence {
```

```
    private String sequence_id;
```

```
    private String format;
```

```
}
```

```
public class ReferenceSequence {
```

```
    private String name;
```

```
    private String displayName;
```

```
    private FeatureLocation[] featureLocation;
```

```
}
```

```
public class FeatureLocation {
```

```
    private FeatureSegment[] featureSegment;
```

```
    private Variation[] variation;
```

```
}
```

```
public class Feature {
```

```
    private String name;
```

```
    private String displayName;
```

```
    private String description;
```

```
}
```



```
public class FeatureSegment {  
    private String refStart;  
    private String refEnd;  
}
```

```
public class Variation {  
    private String name;  
    private String displayName;  
    private String description;  
    private String scannerModuleName;  
    private String translationType;  
    private PatternLocation[] patternLocation;  
}
```

```
public class PatternLocation {  
    private String refStart;  
    private String refEnd;  
    private String pattern;  
}
```

```
public class AlignmentMember {  
    private String referenceMember;  
    private AlignedSegment[] alignedSegment;  
}
```

```
public class AlignedSegment {  
    private String refStart;  
    private String refEnd;  
    private String memberStart;  
    private String memberEnd;  
}
```

```
public class Alignment {  
    private String name;  
    private String displayName;  
    private String description;  
    private AlignmentMember[] alignmentMember;  
}
```


*Diagrama 3.

```
public class Population {
```

```
    public String race;
```

```
    public String ethnicity;
```

```
    public String primary-language;
```

```
    public String language-family;
```

```
}
```

```
public class Penel extends Population {
```

```
    public long size;
```

```
    public String count-unit;
```

```
    public boolean pooled;
```

```
    public String type;
```

```
    public Individual[] individual;
```

```
}
```

```
public class Individual extends Population {
```

```
    public String father-id;
```

```
    public String mother-id;
```

```
    public String sex;
```

```
    public String birth-day;
```

```
    public int death-date;
```

```
}
```

```
public class Geographic-location {
```

```
    public double max-longitude;
```

```
    public double max-latitude;
```

```
    public double min-longitude;
```

```
    public double min-latitude;
```

```
}
```

```
public class Taxon {
```

```
    public String rank;
```

```
    public String scientific-name;
```

```
}
```

```
public class Molecular_sample {
```

```
    public string molecule;
```

```
}
```

```
public class Anatomic_location {
```

```
}
```