Creación de listas

```
List<String> arrayListDeStrings = new ArrayList<String>();
arrayListDeStrings.add("Luciano");
arrayListDeStrings.add("Florencia");
arrayListDeStrings.add("Victoria");
```

Camino corto con el mismo resultado

```
List<String> arrayListDeStrings = Arrays.asList("Luciano", "Florencia", "Victoria");
```

Streams

A sequence of elements supporting aggregate operations.

List<String> arrayListDeStrings = Arrays.asList("Luciano","Florencia", "Victoria");
Stream<String> stream = arrayListDeStrings.stream();
stream.

```
♣ allMatch(Predicate <? super String > predicate): boolean - Stream

                                                                                ^
anyMatch(Predicate <? super String > predicate) : boolean - Stream
close(): void - BaseStream
collect(Collector<? super String,A,R> collector): R - Stream

de collect(Supplier < R > supplier, BiConsumer < R,? super String > accumulator, BiCc

count(): long - Stream
distinct(): Stream < String > - Stream
dropWhile(Predicate<? super String> predicate) : Stream<String> - Stream
equals(Object obj): boolean - Object
filter(Predicate<? super String> predicate) : Stream<String> - Stream
findAny(): Optional<String> - Stream
findFirst(): Optional < String > - Stream
```

Stream foreach

```
List<String> arrayListDeStrings = Arrays.asList("Luciano","Florencia", "Victoria");
Stream<String> stream = arrayListDeStrings.stream();
stream.forEach(s -> System.out.println("Hola " + s));
```

Stream anyMatch, allMatch, noneMatch

¿Cómo hago en Java para evaluar si hay un nombre que empiece con L?

Stream anyMatch, allMatch, noneMatch

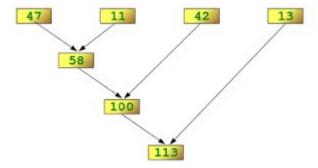
```
List<String> arrayListDeStrings = Arrays.asList("Luciano","Florencia", "Victoria");
Stream<String> stream = arrayListDeStrings.stream();
System.out.println(stream.anyMatch(s -> s.equals("Luciano")));
```

Stream filter

Stream filter

```
List<Integer> arrayNumeros = Arrays.asList(47,11,42,13);
int resultado = arrayNumeros.stream().reduce(0, (acumulado, nuevo) -> acumulado+nuevo);
```

```
List<Integer> arrayNumeros = Arrays.asList(47,11,42,13);
int resultado = arrayNumeros.stream().reduce(0, (acumulado, nuevo) -> acumulado+nuevo);
```



```
List<Integer> arrayVacio = Arrays.asList();
resultado = arrayVacio.stream().reduce(0, (acumulado, nuevo) -> acumulado+nuevo);
```

mapTo

```
int r = arrayVH.stream().mapToInt(p->p.getValue()).reduce(0,(acumulado, nuevo) -> acumulado+nuevo);
```

Anidamiento

```
ArrayList<Producto> lista= new ArrayList<Producto>();
lista.add(new Producto("Milanesa",80));
lista.add(new Producto("Puré",50));
lista.add(new Producto("Agua",70));
lista.add(new Producto("Fideo",95));
double resultado=lista.stream()
.mapToDouble(producto->producto.getMonto()*1.21)
.filter(producto->producto<100)
.sum();
System.out.println(resultado);
```

Anidamiento

Pueden leer la interfaz Stream

```
interface FuncInterface
   // An abstract function
   void abstractFun(int x);
    // A non-abstract (or default) function
    default void normalFun()
      System.out.println("Hello");
class Test
   public static void main(String args[])
        // lambda expression to implement above
        // functional interface. This interface
        // by default implements abstractFun()
        FuncInterface fobj = (int x)->System.out.println(2*x);
        // This calls above lambda expression and prints 10.
        fobj.abstractFun(5);
```