JDK FUNCTIONAL INTERFACES

Package java.util.function

Interface Summa	ry
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Interface	Description
BiConsumer <t,u></t,u>	Represents an operation that accepts two
BiFunction <t,u,r></t,u,r>	Represents a function that accepts two ar
BinaryOperator <t></t>	Represents an operation upon two operar
BiPredicate <t,u></t,u>	Represents a predicate (boolean-valued fi
BooleanSupplier	Represents a supplier of boolean-valued
Consumer <t></t>	Represents an operation that accepts a si
DoubleBinaryOperator	Represents an operation upon two double
DoubleConsumer	Represents an operation that accepts a si
DoubleFunction <r></r>	Represents a function that accepts a doul
DoublePredicate	Represents a predicate (boolean-valued fi

+40 @FunctionalInterface

Interface Function<T,R>

$$f(x) \rightarrow y$$

R apply(T t);

Function<Persona, String> nombre = per -> per.getNombre();

Composiciones con Function

andThen: añadir funcionalidad posterior

```
Function<Persona, String> nombre = per -> per.getNombre();
nombre = nombre.andThen(it -> it.toUpperCase());
```

compose: añadir funcionalidad anterior

```
Function<Coche, Persona> propietario = it -> it.getPropietario();
Function<Persona, String> nombre = per -> per.getNombre();
```

Function<Coche, String> nombrePropietario = nombre.compose(propietario);

Interface UnaryOperator<T>

f:T → T

Además: interfaces para el caso específico de T primitivo int, long, double

IntUnaryOperator
LongUnaryOperator
DoubleUnaryOperator

Interface Function<T,R>

primitivo = int, long o double

f (primitivo) -> R

IntFunction<R>

f (T) -> primitivo

ToLongFunction<T>

f (primitivo) -> primitivo

DoubleToIntFunction

Consumer<T>

Consumer<String> impresor = (it) -> {System.out.println(it);}

Supplier<T>

```
Random random = new Random();
Supplier<Integer> generador = () -> random.nextInt();
```

Predicate<T>

 $f(x) \rightarrow boolean$

Predicate<String> cadenaCorta = it -> it.length() < 10;</pre>

IntPredicate
LongPredicate
DoublePredicate

Binary *

BinaryOperator<T>

$$f(t,t) \rightarrow t$$

BiFunction<T,U,R>

$$f(t,u) \rightarrow r$$

BiPredicate<T,U>

DoubleBinaryOperator

f(double,double) -> double

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