

Functional Programming

Functional Interfaces for Primitives

COMMON FUNCTIONAL INTERFACES FOR PRIMITIVES (1/2)

Functional Interface	Return Type	Abstract Method Signature
BooleanSupplier	boolean	getAsBoolean()
DoubleSupplier	double	getAsDouble()
IntSupplier	int	getAsInt()
LongSupplier	long	getAsLong()
DoubleConsumer	void	accept(double a)
IntConsumer	void	accept(int a)
LongConsumer	void	accept(long value)
DoublePredicate	boolean	test(double value)
IntPredicate	boolean	test(int value)
LongPredicate	boolean	test(long value)

COMMON FUNCTIONAL INTERFACES FOR PRIMITIVES (2/2)

Functional Interface	Return Type	Abstract Method Signature
<code>DoubleFunction<R></code>	<code>R</code>	<code>apply(double value)</code>
<code>IntFunction<R></code>	<code>R</code>	<code>apply(int value)</code>
<code>LongFunction<R></code>	<code>R</code>	<code>apply(long value)</code>
<code>DoubleUnaryOperator</code>	<code>double</code>	<code>applyAsDouble(double value)</code>
<code>IntUnaryOperator</code>	<code>int</code>	<code>applyAsInt(int value)</code>
<code>LongUnaryOperator</code>	<code>long</code>	<code>applyAsLong(long value)</code>
<code>DoubleBinaryOperator</code>	<code>double</code>	<code>applyAsDouble(double v, double w)</code>
<code>IntBinaryOperator</code>	<code>int</code>	<code>applyAsInt(int v, int w)</code>
<code>LongBinaryOperator</code>	<code>long</code>	<code>applyAsLong(long v, long w)</code>

PRIMITIVE-SPECIFIC FUNCTIONAL INTERFACES (1/2)		
Functional Interface	Return Type	Abstract Method Signature
<code>ToDoubleFunction<T></code>	<code>double</code>	<code>applyAsDouble(T t)</code>
<code>ToIntFunction<T></code>	<code>int</code>	<code>applyAsInt(T t)</code>
<code>ToLongFunction<T></code>	<code>long</code>	<code>applyAsLong(T t)</code>
<code>ToDoubleBiFunction<T, U></code>	<code>double</code>	<code>applyAsDouble(T t, U u)</code>
<code>ToIntBiFunction<T, U></code>	<code>int</code>	<code>applyAsInt(T t, U u)</code>
<code>ToLongBiFunction<T, U></code>	<code>long</code>	<code>applyAsLong(T t, U u)</code>

PRIMITIVE-SPECIFIC FUNCTIONAL INTERFACES (2/2)

Functional Interface	Return Type	Abstract Method Signature
DoubleToIntFunction	int	applyAsInt(double value)
DoubleToLongFunction	long	applyAsLong(double value)
IntToDoubleFunction	double	applyAsDouble(int value)
IntToLongFunction	long	applyAsLong(int value)
LongToDoubleFunction	double	applyAsDouble(long value)
LongToIntFunction	int	applyAsInt(long value)
ObjDoubleConsumer<T>	void	accept(T t, double value)
ObjIntConsumer<T>	void	accept(T t, int value)
ObjLongConsumer<T>	void	accept(T t, long value)