Java Functional Interfaces

java.util.function

Basic Types

PREDICATE	takes one (or two) argument(s) and returns a boolean (5 variants)
UNARY OPERATOR	result and the single argument types are the same (4 variants)
BINARY OPERATOR	result and both argument types are the same (4 variants)
FUNCTION	result and one (or two) argument(s) types are different (17 variants)
SUPPLIER	takes no arguments, returns a value (5 variants)
CONSUMER	takes one (or two) arguments and returns no value (8 variants)

Predicate

Unary Operator

Predicate <t></t>	Represents a predicate (boolean-valued function) of one argument (reference type)	UnaryOperator <t></t>	Represents an operation on a single operand that produces a result of the same type as its operand (reference type)
DoublePredicate	Accepts one double-valued argument	DoubleUnaryOperator	Accepts single double-valued operand and produces a
IntPredicate	Accepts one int-valued argument.	DoubleonaryOperator	double-valued result
LongPredicate	Accepts one long-valued argument	IntUnaryOperator	Accepts a single int-valued operand and produces an int-valued result
BiPredicate <t,u></t,u>	Accepts two arguments (reference types)		
		LongUnaryOperator	Accepts a single long-valued operand and produces a long-valued result

Binary Operator

BinaryOperator <t></t>	Represents an operation upon two operands of the same type, producing a result of the same type as the operands (reference type)
DoubleBinaryOperator	Accepts two double-valued operands and produces a double-valued result
IntBinaryOperator	Accepts two int-valued operands and produces an int-valued result
LongBinaryOperator	Accepts two long-valued operands and produces a long-valued result.

Java Functional Interfaces

java.util.function

Function

Function <t,r></t,r>	Represents a function that accepts one argument and produces a result (reference type)
DoubleFunction <r></r>	Accepts a double-valued argument and produces a result
IntFunction <r></r>	Accepts an int-valued argument and produces a result
LongFunction <r></r>	Accepts a long-valued argument and produces a result
DoubleToIntFunction	Accepts a double-valued argument and produces an int-valued result
DoubleToLongFunction	Accepts a double-valued argument and produces a long-valued result
IntToDoubleFunction	Accepts an int-valued argument and produces a double-valued result
IntToLongFunction	Accepts an int-valued argument and produces a long-valued result
LongToIntFunction	Accepts a long-valued argument and produces an int-valued result
LongToDoubleFunction	Accepts a long-valued argument and produces a double-valued result.
ToDoubleFunction <t></t>	Accepts a reference type and produces an int- valued result
ToIntFunction <t></t>	Accepts a reference type and produces an int- valued result
ToLongFunction <t></t>	Accepts a reference type and produces a long-valued result.
BiFunction <t,u,r></t,u,r>	Represents a function that accepts two arguments and produces a result (reference type)
ToDoubleBiFunction <t,u></t,u>	Accepts two reference type arguments and produces a double-valued result
ToIntBiFunction <t,u></t,u>	Accepts two reference type arguments and produces an int-valued result
ToLongBiFunction <t,u></t,u>	Accepts two reference type arguments and produces a long-valued result

Java Functional Interfaces

java.util.function

Supplier

Supplier <t></t>	Represents a supplier of results (reference type)
DoubleSupplier	A supplier of double-valued results
IntSupplier	A supplier of int-valued results
LongSupplier	A supplier of long-valued results
BooleanSupplier	A supplier of boolean-valued results

Consumer

Consumer <t></t>	Represents an operation that accepts a single (reference type) input argument and returns no result
DoubleConsumer	Accepts a single double-valued argument and returns no result
IntConsumer	Accepts a single int-valued argument and returns no result
LongConsumer	Accepts a single long-valued argument and returns no result
BiConsumer <t,u></t,u>	Represents an operation that accepts two (reference type) input arguments and returns no result
ObjDoubleConsumer <t></t>	Accepts an object-valued and a double-valued argument, and returns no result
ObjIntConsumer <t></t>	Accepts an object-valued and an int-valued argument, and returns no result
ObjLongConsumer <t></t>	Accepts an object-valued and a long-valued argument, and returns no result