Functional Interface

Package - java.util.function

1) Consumer
   - Accept and process
   - Doesn't return anything

2) Supplier
   - Doesn't accept any arguments
   - Returns a generic type
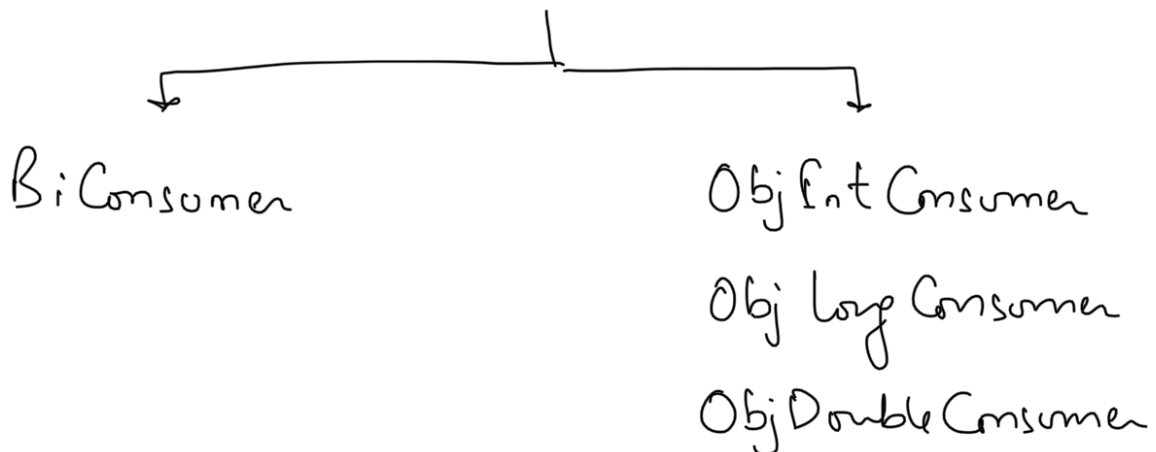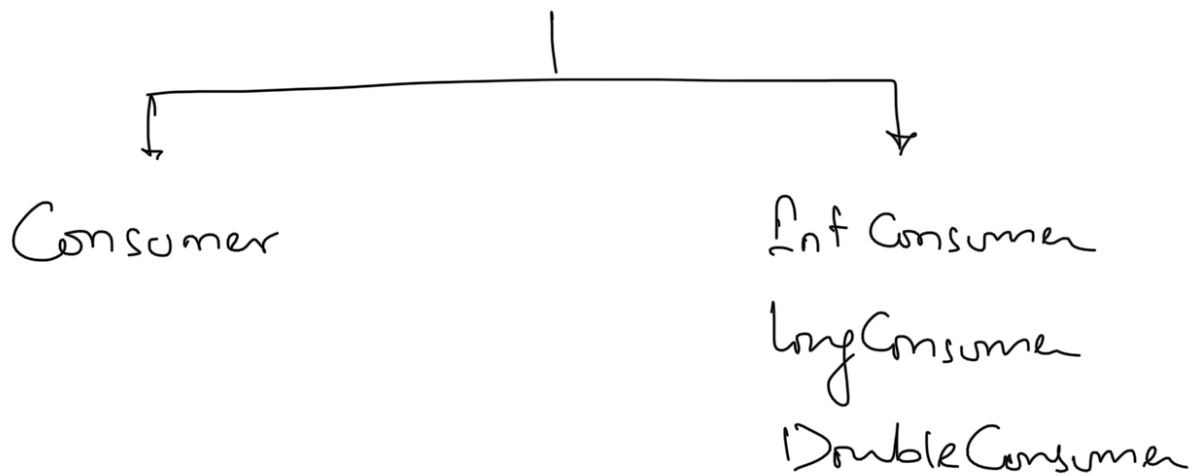
3) Predicate
   - Accepts arguments
   - Returns boolean ⇒ True / false

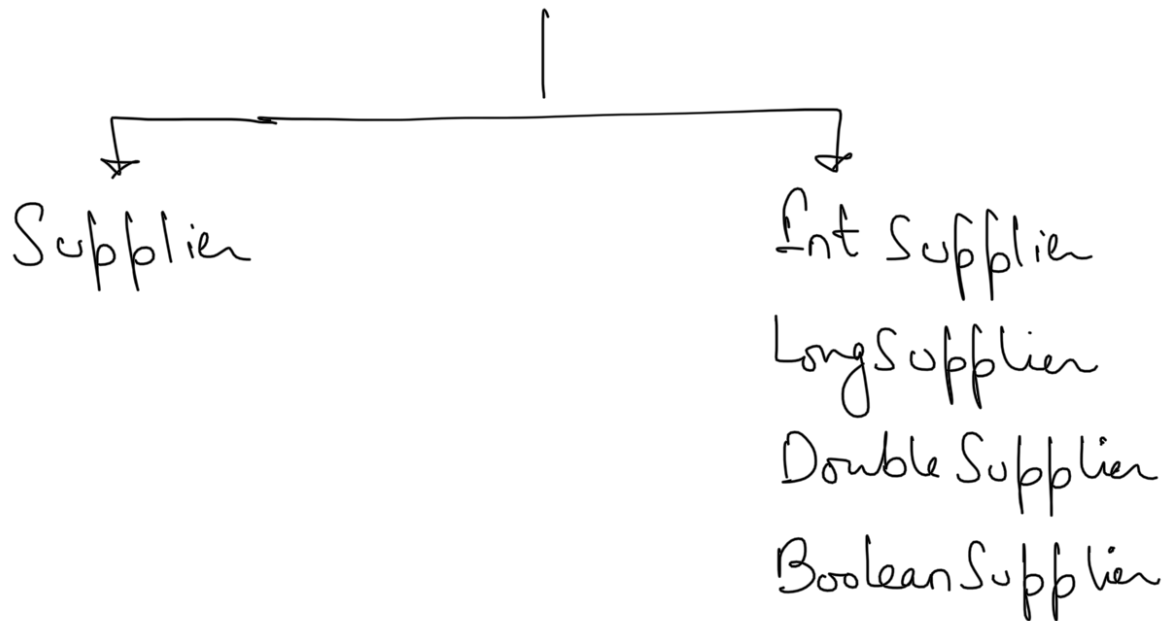4) Function
   └ Accepts input
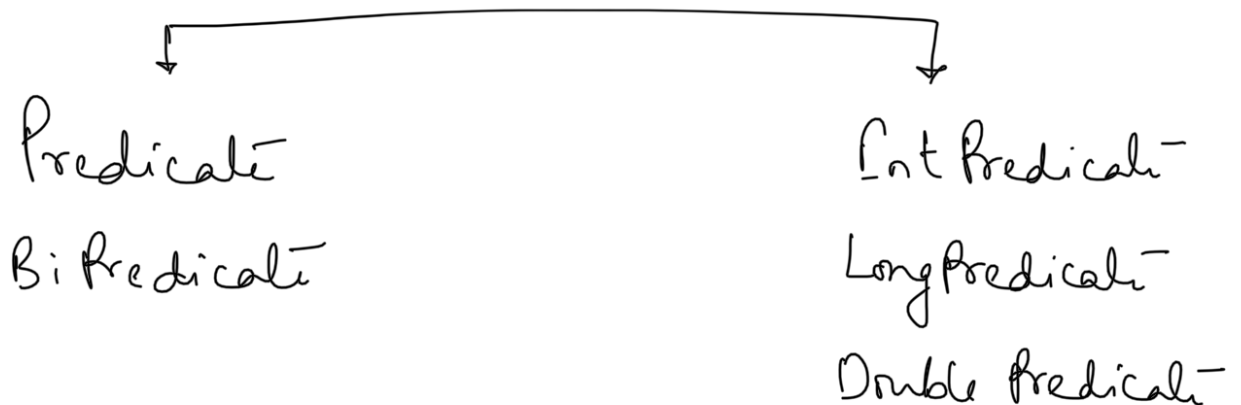   └ Returns a value
   └ transforms an input to an
      output

Consumer

Consumer

Int Consumer

Long Consumer

Double Consumer

Bi Consumer

Obj Int Consumer

Obj Long Consumer

Obj Double Consumer

Supplier

```
                    Supplier
                       |
        ┌──────────────┴──────────────┐
        ▼                             ▼
   Supplier                     Int Supplier
                                Long Supplier
                                Double Supplier
                                Boolean Supplier
```

Predicate

```
        ┌──────────────┴──────────────┐
        ▼                             ▼
   Predicate                    Int Predicate
   Bi Predicate                 Long Predicate
                                Double Predicate
```

Function

(input, Output) — Function

Primitive — To Int Function
├ To Long Function
└ To Double Function

Primitive ┌ Int Function
├ Long Function
└ Double function
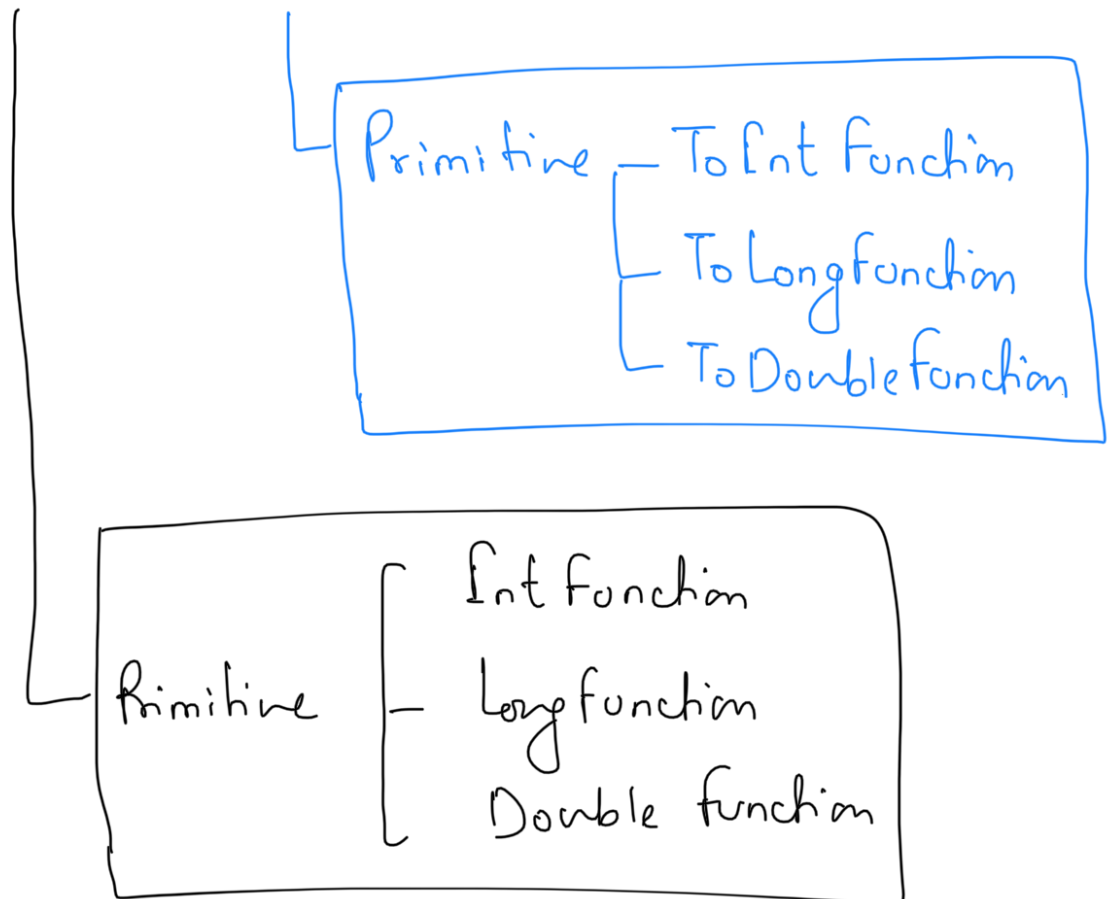
(input 1, input 2, output) — BiFunction

Primitive

DoubleToLong

LongToDouble

LongToInt

IntToLong

IntToDouble

DoubleToInt

Primitive
├─ ToInt BiFunction
├─ ToDouble BiFunction
└─ ToLong BiFunction