**Subtyping** is a form of type polymorphism in which a subtype is a datatype that is related to another datatype (the supertype) by some notion of substitutability, meaning that program elements, typically subroutines or functions, written to operate on elements of the supertype can also operate on elements of the subtype.

If S is a subtype of T, the subtyping relation is often written S <: T, to mean that any term of type S can be safely used in a context where a term of type T is expected. The precise semantics of subtyping crucially depends on the particulars of what "safely used in a context where" means in a given programming language.

**Subclassing** should not be confused with subtyping. In general, subtyping establishes an is-a relationship, whereas subclassing only reuses implementation and establishes a syntactic relationship, not necessarily a semantic relationship (inheritance does not ensure behavioral subtyping).

To distinguish these concepts, subtyping is also known as interface inheritance, whereas subclassing is known as implementation inheritance or code inheritance

**List< ? extends X >** doesn't allow to add anything into the list.

**List< ? super X >** allows to add anything that is-a X (X or its subclass).

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