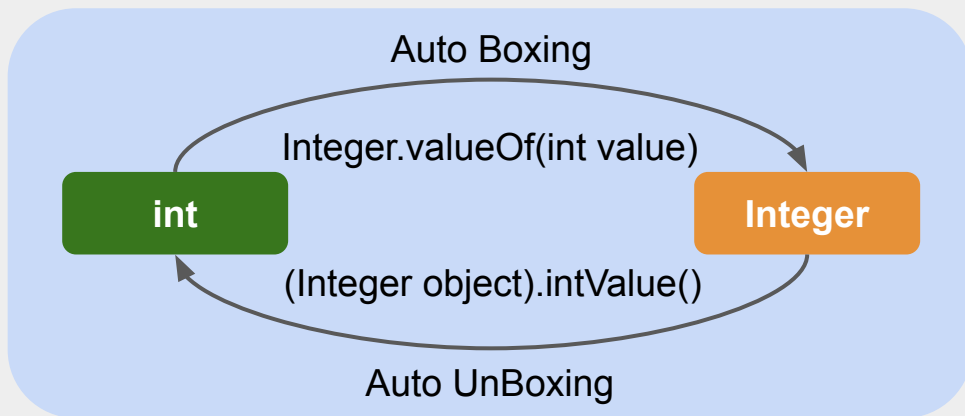


Autoboxing and Unboxing

Auto Boxing and Auto UnBoxing

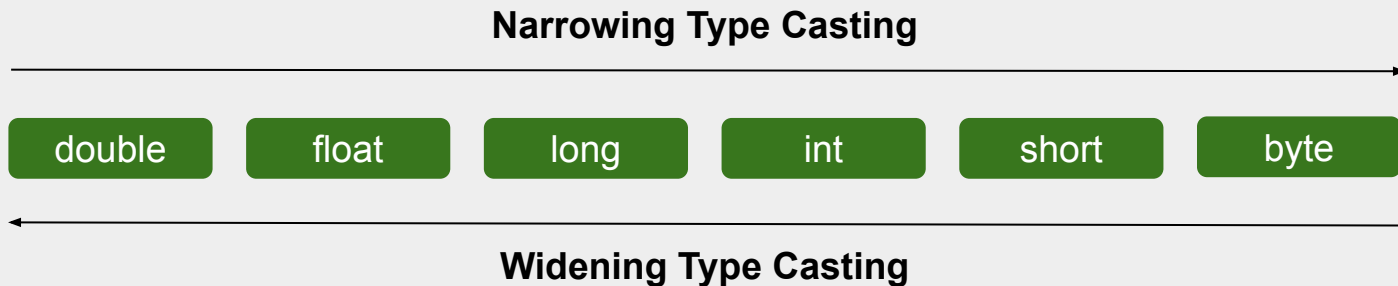
Autoboxing is the automatic conversion that the Java compiler makes between the primitive types and their corresponding object wrapper classes. For example, converting an `int` to an `Integer`, a `double` to a `Double`, and so on. If the conversion goes the other way, this is called unboxing.



What is Narrowing and Widening

Narrowing refers to passing a higher size data type like int to a lower size data type like short. It may lead to data loss. Casting is required for narrowing conversion.

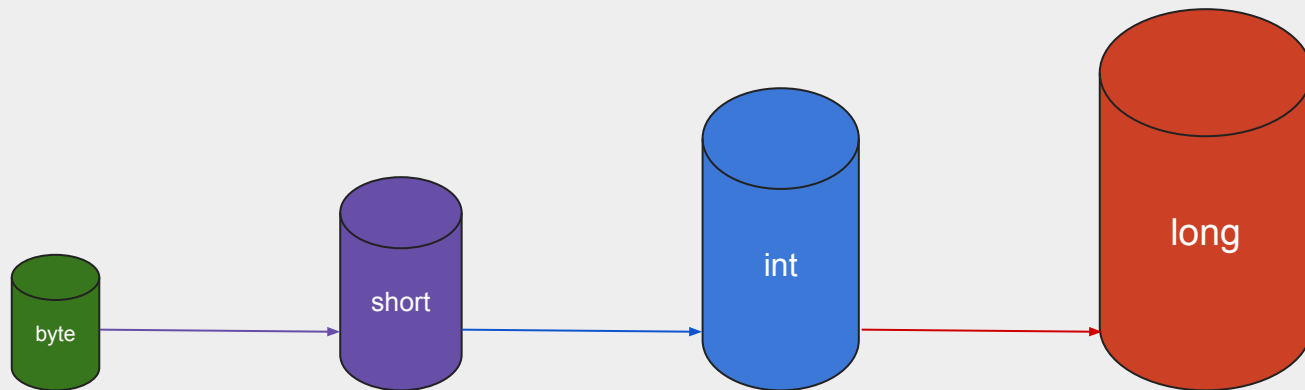
Widening – Converting a lower datatype to a higher data type is known as widening. In this case the casting/conversion is done automatically therefore, it is known as implicit type casting. In this case both data types should be compatible with each other.



Casts

- Widening Casting (automatically) - converting a smaller type size to a larger type size

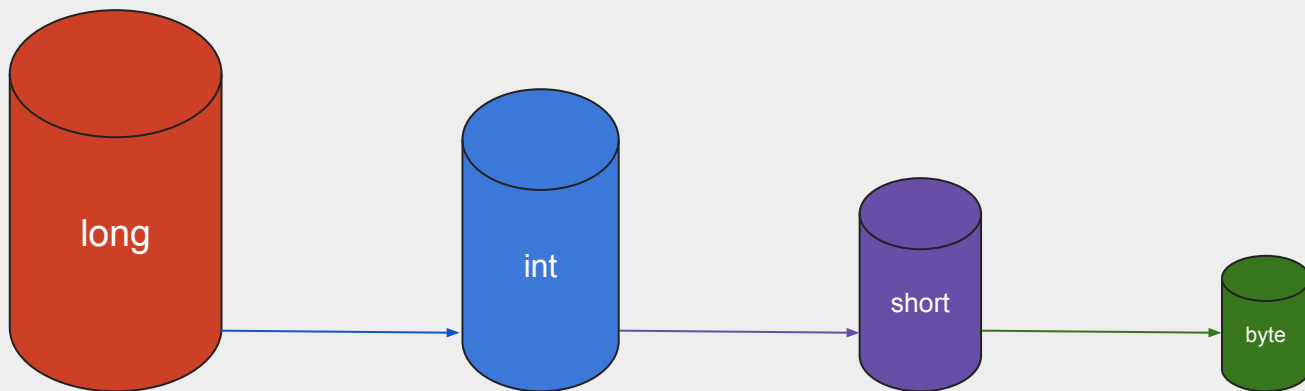
byte -> short -> char -> int -> long -> float -> double



Casts

- Narrowing Casting (manually) - converting a larger type to a smaller size type

`double -> float -> long -> int -> char -> short -> byte`



Interview Questions