

### 35. TreeSet vs TreeMap

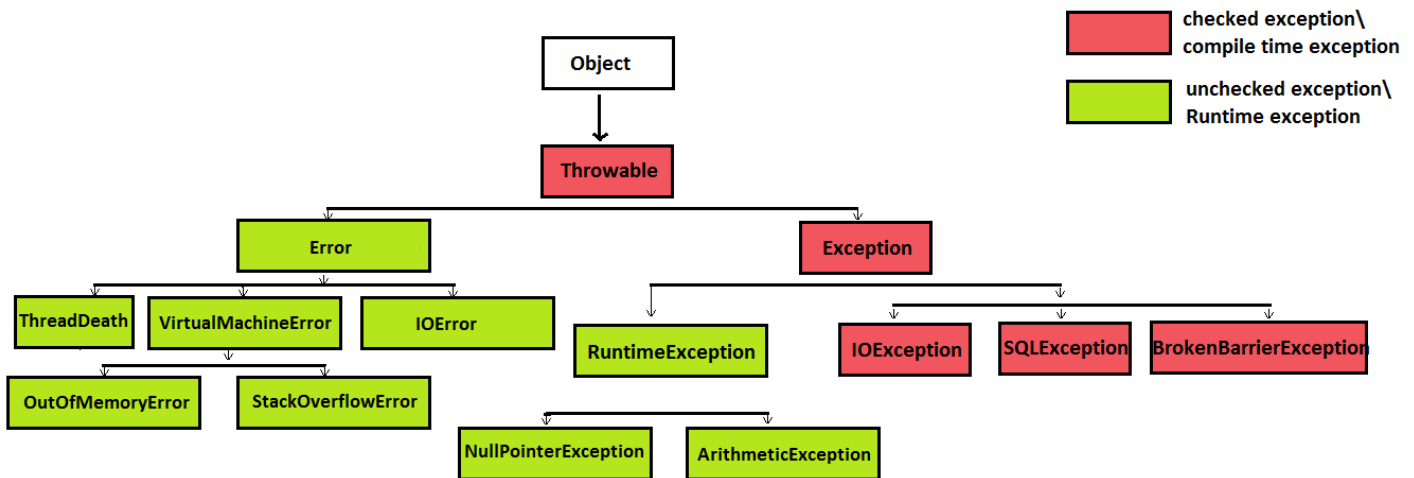
- TreeSet: Can contain only unique values - is sorted in ascending order
- TreeMap: can contain only unique keys. - keys are sorted in ascending order

### 36. final vs finalize vs finally ?

- **final** → is a keyword and used to apply restrictions on class, method and variable.
  - final Class CAN'T be Inherited
  - final Method CAN'T be Overridden
  - final Variable value CAN'T be changed.
- **finally** → is a block and used to place important code, it will be executed whether exception handled or not
- **finalize** → is a method and used to perform clean-up processing before Object is Garbage collected.

### 37. Difference between Error and Exception in Java?

- Both Error and Exception are derived from Throwable in Java.
- Error represent errors which are generally cannot be handled.  
For examples: OutOfMemoryError, NoClassDefFoundError
- On the other hand, Exception represent errors which can be catch and dealt.  
For examples> IOException, NullPointerException
- Exception is divided in two categories checked and unchecked Exception. Checked Exception require a mandatory try-catch code block to handle it. Unchecked Exception mostly represent programming errors (NullPointerException or RuntimeException)
- Errors are unchecked exception and the developer is not required to do anything with these
- **All the Errors are Exceptions, but the reverse is not true.**
- In general Errors are which nobody can control or guess when it happened, on the other hand Exception can be guessed and can be handled



### 38. Difference between RuntimeException and CheckedException in Java?

- Exception are divided in two categories Runtime (unchecked) Exception and CheckedException.
- Main difference between RuntimeException and CheckedException is that, it is mandatory to provide try-catch to handle CheckedException while in case of RuntimeException is not mandatory.
- Some of the most common Exception like NullPointerException, ArrayIndexOutOfBoundsException, ClassNotFoundException, IOException.

First I want to remind that Java Exceptions are divided in two categories RuntimeException also known as unchecked