

Error Handling:

↳ Any type of action to process any kind of error

Exception → Condition that signals piece of code could not execute normally.

Chart

Byte → 1 byte

Short - 2

Int - 4

long - 8

float - 4

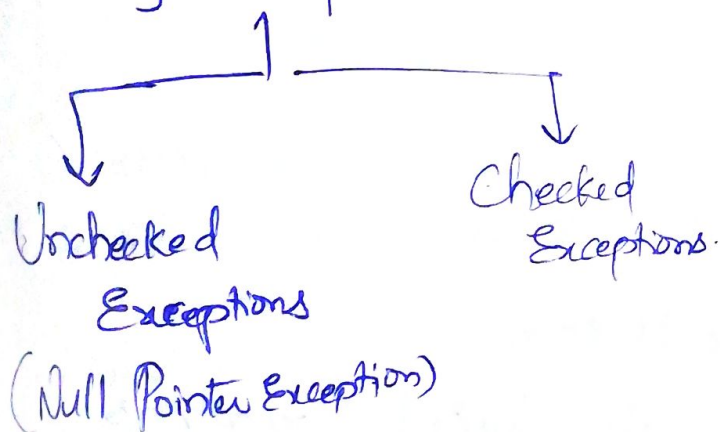
double - 8

Char → 2 Bytes

Char → Int → Implicit

Reverse → Explicit

Catching Exceptions



Method Stack

Exception

- Interrupted Exception
- IO Exception
- Pause Exception
- Reflective

Class not found

Operation Exception

Illegal Access

No Such Field

No Such Method

Runtime Exception

- ↳ Arithmetic Exception
- ↳ ClassCast Exception
- ↳ Illegal Argument Exception → (NumberFormatException)
- ↳ Index out of Bounds Exception

- ↳ Null Pointer Exception
 - ↳ Array Index out of Bounds
 - ↳ String Buffer Index out of Bounds

→ Never catch Error class
↳ not subclass of Exception

→ ThreadDeath, AssertionError

Linkage Error

Virtual Machine Error → Common Error classes

Linkage Error → Class Crecibility Error

- ↳ ClassFormat Error
- ↳ NoClassDef Found Error
- ↳ Verify Error

→ Handle Exception locally

→ Propagate the Exception by:

- Rethrowing the Exception
- Chaining the Exception

AWS Exceptions

↓
AmazonWebServiceException

AmazonWebClientException

Avoid unnecessary use of checked Exceptions