

JAVA EXCEPTIONS CHEAT SHEET

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Exception Handling

In Java, an exception is an event that disrupts the normal flow of the program. It is an object which is thrown at runtime. Exception Handling is a mechanism to handle runtime errors such as ClassNotFoundException, IO, SQLException.



Errors Exception

- 1. Represents a recoverable error state
- 2. Error state of the JVM itself is an exception
- 3. All errors are at least one level above Exception
- 4. They are not thrown automatically. They happen at run time.
- 5. Errors are caused by the programmer in which the application is running.
- 6. Provides a recoverable state of Exception
- 7. Exceptions can be distinguished by inheritance tree
- 8. An exception can be caught and being Exception
- 9. Checked exceptions are known in compile time as unchecked exceptions are not known compile time
- 10. Exceptions are caused by the JVM itself

Exception Hierarchy



Types of Exception in Java with Examples



throw vs throws

Java throw example

```

void m1() {
  throw new ArithmeticException("Incorrect");
}
  
```

Java throws example

```

void m1() throws ArithmeticException {}
  
```

Java throw and throws example

```

void m1() throws ArithmeticException {
  throw new ArithmeticException("Incorrect");
}
  
```

Exception Handling Methods

try block

```

try {
  //Code that throws exception
  System.out.println("Hello World");
}
  
```

catch block

```

public class Sampletrycatch {
  public static void main(String args[]) {
    try {
      int data=10/0; //throws exception
      System.out.println("Remaining code");
    }
  }
}
  
```

finally block

```

public class SamplefinallyBlock {
  public static void main(String args[]) {
    try {
      int a[]=new int[5]; a[1]=10/0;
    } catch (ArithmeticException e) {
      System.out.println("Task 1 is completed");
    } catch (ArrayIndexOutOfBoundsException e) {
      System.out.println("Task 2 completed");
    } catch (Exception e) {
      System.out.println("Task 3 completed");
    }
    System.out.println("Remaining code");
  }
}
  
```

finally try block

```

class Exception {
  public static void main(String args[]) {
    try {
      System.out.println("going to divide");
      int b=10/0;
      System.out.println("Exception: "+e.getMessage());
    } catch (ArithmeticException e) {
      System.out.println("e");
    } catch (ArrayIndexOutOfBoundsException e) {
      System.out.println("e");
    }
    System.out.println("After statement");
    System.out.println("e");
    System.out.println("Exception handled");
    System.out.println("usual flow");
  }
}
  
```

Fundamentals of Java Exceptions

Basic Exception

```

public class SampleSimple {
  public static void main(String args[]) {
    try {
      //Code that throws exception
      int data=10/0;
    } catch (ArithmeticException e) {
      System.out.println(e);
    }
    //Code at the end of the program
    System.out.println("End of the code...");
  }
}
  
```

Exception Methods

```

public String getMessage()
public Throwable getStackTrace()
public String toString()
public void printStackTrace()
public void printStackTrace(PrintStream s)
public void printStackTrace(PrintWriter w)
public Throwable printStackTrace(PrintWriter w)
  
```

Common Scenarios

1. **ArithmeticException**
int a=10/0;
2. **NullPointerException**
String str=null;
System.out.println(a.Length());
3. **NumberFormatException**
String str="abc";
int i=Integer.parseInt(s);
4. **ArrayIndexOutOfBoundsException**
int a[]=new int[5]; a[10]=54;

Exception Methods

- try - The "try" keyword is used to specify a block where we should place exception code
- catch - The "catch" block is used to handle the exception
- finally - The "finally" block is used to execute the important code of the program
- throw - The "throw" keyword is used to throw an exception
- throws - The "throws" keyword is used to declare exceptions

Exception Handling with Method Overriding in Java

If the superclass method does not declare an exception

```

class Parent {
  void m1() {
    System.out.println("Parent");
  }
}

class ExceptionChild extends Parent {
  void m1() throws IOException {
    System.out.println("ExceptionChild");
  }
}

public static void main(String args[]) {
  Parent parent=new Parent();
  parent.m1();
}
  
```

Subclass overridden method declares parent exception

```

class Parent {
  void m1() {
    System.out.println("Parent");
  }
}

class ExceptionChild extends Parent {
  void m1() throws IOException {
    System.out.println("Child");
  }
}

public static void main(String args[]) {
  Parent parent=new ExceptionChild();
  parent.m1();
}
  
```



final	finally	finalize
final is a keyword	finally is a block	finalize is a method
Used to apply restrictions on class, methods and variables.	Used to place important code	Used to perform clean up processing just before the object is garbage collected
- final class cannot be inherited	- It will be executed whether the exception is handled or not	
- final method can't be overridden		
- final variable can't be changed		

finally block

```

class SamplefinallyBlock {
  public static void main(String args[]) {
    try {
      int data=10/0;
      System.out.println(data);
    } catch (ArithmeticException e) {
      System.out.println(e);
    } finally {
      System.out.println("finally block is executed");
    }
    System.out.println("Remaining code");
  }
}
  
```

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Huangqi Zhang



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