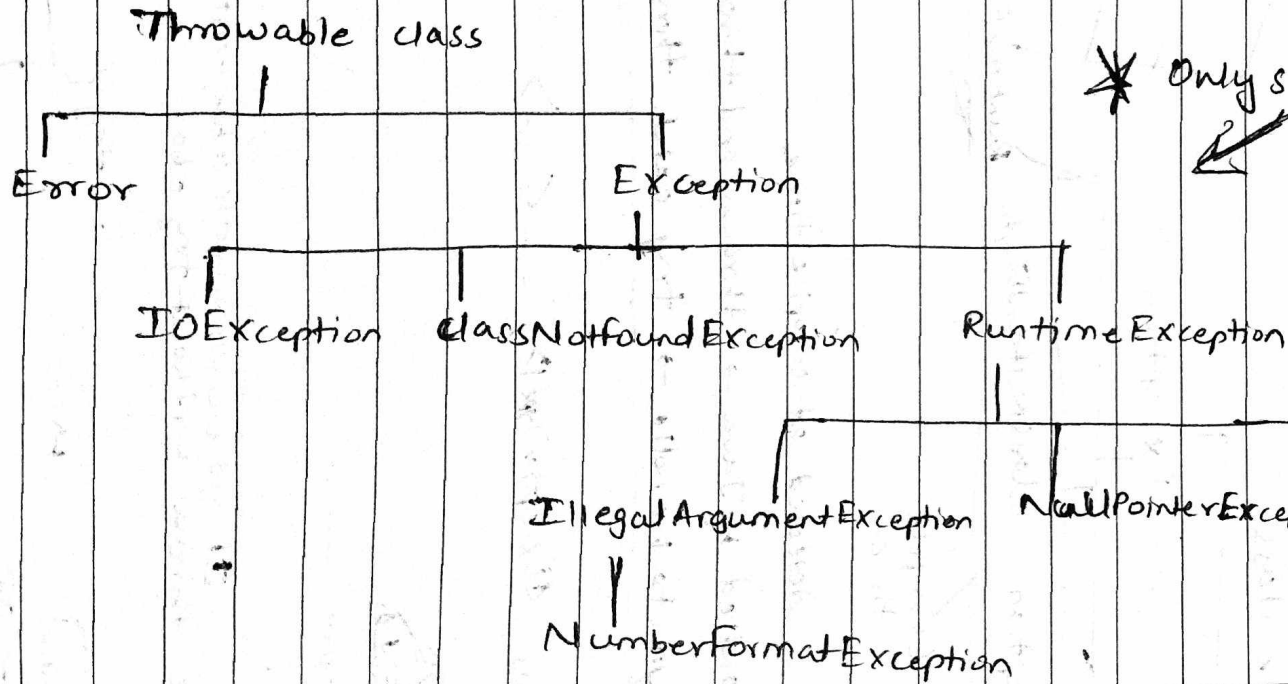


Checked exception - detected at compile time
 Unchecked exception - compiler doesn't check
 Exception is predefined situation in Java

Sequence - 1. try
 2. catch
 3. finally
 4. Java's default catch

Even ^{when} there's no try, finally will work.
 Multiple catch blocks
 only one finally



* Only some classes are shown here

checked exception
 2 options:
 (i) try, catch, throw
 (ii) throws and throw

4 options
 (i) default throw default catch
 {
 Java code
 }

checked } same for both
 unchecked }

Exception Object will be thrown by default by Java
 Program will end

(ii) default throw & our catch

```
try
{
}
catch (<exception type> Parameter)
{
}
finally {
}
```

I guess, this option is not for checked exception because there's no throw here

(iii) our throw & default catch

throw <ThrowableInstance> - of type ~~Throwable~~ Throwable class

unchecked
exception

```
class {
    p.s.v.m() {
        int balance = 5000;
        int withdrawAmount = 10000;
        if (balance < withdrawAmount)
            throw new ArithmeticException("Insufficient balance");
        balance = balance - withdrawAmount;
    }
}
```

checked
exception

```
class {
    p.s.v.m() {
        p.s.v.m() throws IOException
    }
    throw new IOException();
}
```

method() throws <ExceptionType>, -----
<ExceptionType>

IV

Our throw and our catch

Unchecked exception →

```
P.S.V.main() {  
    try {  
        throw new ArithmeticException("insufficient balance");  
    }  
    catch (ArithmeticException e)  
    {  
        System.out.println("Exception: " + e.getMessage());  
    }  
    System.out.println("Program continued");  
}
```

Checked exception →

```
P.S.V.m.C() {  
    try {  
        throw new IOException();  
    }  
    catch (IOException e)  
    {  
        System.out.println("Exception: " + e.getMessage());  
    }  
}
```

Write the specific catches first & then the generic catch.