

1. Which of the following is the **superclass** of all exceptions in Java?

- a) Throwable
  - b) Exception
  - c) RuntimeException
  - d) Error
- 

2. What is the parent class of both `Exception` and `Error`? a) Throwable

- b) Object
  - c) RuntimeException
  - d) IOException
- 

3. Which of these is a **checked exception**? a) `NullPointerException`

- b) `ArrayIndexOutOfBoundsException`
  - c) `ArithmeticException`
  - d) `IOException`
- 

4. What happens if a checked exception is not handled or declared in a method?

- a) Program crashes at runtime
  - b) Compiler shows an error
  - c) Method automatically handles it
  - d) JVM ignores it
- 

5. Which of the following is an **unchecked exception**? a) `SQLException`

- b) `ClassNotFoundException`
  - c) `FileNotFoundException`
  - d) `NumberFormatException`
- 

6. Errors in Java, like `OutOfMemoryError`, are:

- a) Meant to be caught using try-catch
  - b) Subclasses of `Exception`
  - c) Non-recoverable
  - d) Checked exceptions
- 

7. Which keyword is used to handle exceptions in Java?

- a) `final`
  - b) `catch`
  - c) `throw`
  - d) `try`
- 

8. Which block must always follow a try block?

- a) `catch`
  - b) `throw`
  - c) `finally`
  - d) None
- 

9. How many `catch` blocks can follow a single `try` block?

- a) Only one
  - b) Two
  - c) As many as needed
  - d) None
-

10. What will happen if an exception is thrown but not caught?

- a) Program continues normally
  - b) Compiler fixes it
  - c) Program terminates abnormally
  - d) JVM ignores it
- 

11. What kind of exception is `NullPointerException`? a) Checked

- b) Unchecked
  - c) User-defined
  - d) Compile-time
- 

12. Which one of the following is NOT a subclass of `RuntimeException`? a)

- `ArithmeticException`
  - b) `FileNotFoundException`
  - c) `ArrayIndexOutOfBoundsException`
  - d) `NumberFormatException`
- 

13. In Java, errors and exceptions are part of which hierarchy?

- a) `Object`
  - b) `Throwable`
  - c) `Exception`
  - d) `RuntimeException`
- 

14. Which of the following is true about `try` and `catch` blocks?

- a) Only `catch` is required
  - b) Only `try` is required
  - c) `try` must be followed by either `catch` or `finally`
  - d) Both `try` and `catch` are optional
- 

15. You write a method that reads a file. Which kind of exception must you handle or declare?

- a) `FileNotFoundException`
  - b) `NullPointerException`
  - c) `ArithmeticException`
  - d) `ArrayIndexOutOfBoundsException`
- 

16. When multiple catch blocks are used, how are exceptions matched?

- a) Bottom-up
  - b) Randomly
  - c) Top-down, from specific to general
  - d) Order does not matter
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17. What happens if the general exception class is written before a specific one in multiple catch blocks?

- a) Compiler error
  - b) Runtime error
  - c) JVM skips the specific one
  - d) No issue
- 

18. Can a `try` block be used without a `catch` block?

- a) No
- b) Yes, only with a `finally` block

- c) Yes, always
- d) Only inside a loop

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19. Which of the following represents a scenario where you should NOT use try-catch?

- a) Null input
- b) Parsing a file
- c) Dividing two integers
- d) Fixing an `OutOfMemoryError`

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20. You have the following code:

```
try {
    int a = 5 / 0;
} catch (ArithmeticException e) {
    System.out.println("Arithmetic error!");
} catch (Exception e) {
    System.out.println("General error!");
}
```

What will be the output?

- a) Arithmetic error! b) General error! c) Compilation error
- d) Runtime exception not caught

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## Code Based Questions

1.

```
try {
    String str = null;
    System.out.println(str.length());
} catch (ArithmeticException e) {
    System.out.println("Arithmetic error!");
} catch (NullPointerException e) {
    System.out.println("Null pointer error!");
}
```

- a) Arithmetic error! b) Null pointer error! c) Compilation error
- d) No output

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2.

```
try {
    int[] arr = new int[3];
    System.out.println(arr[5]);
} catch (ArrayIndexOutOfBoundsException e) {
    System.out.println("Array error!");
} catch (Exception e) {
    System.out.println("General error!");
}
```

- a) Array error! b) General error! c) Compilation error  
d) No output
- 

3.

```
try {  
    int a = Integer.parseInt("abc");  
} catch (NumberFormatException e) {  
    System.out.println("Number format error!");  
} catch (Exception e) {  
    System.out.println("General error!");  
}
```

- a) Number format error! b) General error! c) Compilation error  
d) No output
- 

4.

```
try {  
    int result = 10 / 2;  
    System.out.println("Result: " + result);  
} catch (ArithmeticException e) {  
    System.out.println("Divide by zero!");  
}
```

- a) Result: 5  
b) Divide by zero! c) Compilation error  
d) No output
- 

5.

```
try {  
    throw new Exception("Custom exception");  
} catch (RuntimeException e) {  
    System.out.println("Runtime exception caught");  
} catch (Exception e) {  
    System.out.println("General exception caught");  
}
```

- a) Runtime exception caught  
b) General exception caught  
c) Compilation error  
d) No output
- 

6.

```
try {  
    int[] nums = null;  
    nums[0] = 10;  
} catch (ArrayIndexOutOfBoundsException e) {  
    System.out.println("Index problem");  
} catch (NullPointerException e) {
```

```
System.out.println("Null reference issue");  
}
```

- a) Index problem
  - b) Null reference issue
  - c) Compilation error
  - d) No output
- 

7.

```
try {  
    String s = "123";  
    int x = Integer.parseInt(s);  
    System.out.println(x / 0);  
} catch (NumberFormatException e) {  
    System.out.println("Invalid number");  
} catch (ArithmeticException e) {  
    System.out.println("Division by zero");  
}
```

- a) Invalid number
  - b) Division by zero
  - c) Compilation error
  - d) No output
- 

8.

```
try {  
    int x = 5 / 0;  
} catch (Exception e) {  
    System.out.println("Exception caught");  
} catch (ArithmeticException e) {  
    System.out.println("Arithmetic caught");  
}
```

- a) Exception caught
  - b) Arithmetic caught
  - c) Compilation error
  - d) No output
- 

9.

```
try {  
    System.out.println("Start");  
} catch (Exception e) {  
    System.out.println("Error occurred");  
}
```

- a) Start
  - b) Error occurred
  - c) Compilation error
  - d) No output
-

10.

```
try {  
    String s = null;  
    System.out.println("Length: " + s.length());  
} catch (Exception e) {  
    System.out.println("Handled in general catch");  
}
```

- a) Length: 0
  - b) Compilation error
  - c) Handled in general catch
  - d) NullPointerException
-