1.

```
public class Test {

    static int count = 0;
    int i = 0;

    public void changeCount() {
        while (i < 5) {
            i++;
            count++;
        }
    }

    public static void main(String[] args) {
        Test check1 = new Test();
        Test check2 = new Test();
        check1.changeCount();
        check2.changeCount();
        System.out.print(check1.count + " : " + check2.count);
    }
}
```

What is the result?

A. 10 : 10
B. 5 : 5
C. 5 : 10
D. Compilation fails

Answer: A

2.
Which three are advantages of the Java exception mechanism?

A. Improves the program structure because the error handling code is separated from the normal program function

B. Provides a set of standard exceptions that covers all the possible errors

C. Improves the program structure because the programmer can choose where to handle exceptions

D. Improves the program structure because exceptions must be handled in the method in which they occurred

E. Allows the creation of new exceptions that are tailored to the particular program being created

Answer: A,C,E

3.

```
public class Person {
    String name;
    int age = 25;

    public Person(String name) {
        this();                                    //line n1
        setName(name);
    }

    public Person(String name, int age) {
        Person(name);                              //line n2
        setAge(age);
    }

    //setter and getter methods go here

    public String show() {
        return name + " " + age + " " + number ;
    }
    public static void main(String[] args) {
        Person p1 = new Person("Jesse");
        Person p2 = new Person("Walter",52);
        System.out.println(p1.show());
        System.out.println(p2.show());
    }
}
```

What is the result?

A. Jesse 25
Walter 52
B. Compilation fails only at line n1
C. Compilation fails only at line n2
D. Compilation fails at both line n1 and line n2

Answer: D

4.

```
LocalDate date1 = LocalDate.now();
LocalDate date2 = LocalDate.of(2014, 6, 20);
LocalDate date3 = LocalDate.parse("2014-06-20", DateTimeFormatter.ISO_DATE);
System.out.println("date1 = " + date1);
System.out.println("date2 = " + date2);
System.out.println("date3 = " + date3);
```

Assume that the system date is June 20, 2014. What is the result?

A) `date1 = 2014-06-20`
`date2 = 2014-06-20`
`date3 = 2014-06-20`

B) `date1 = 06/20/2014`
`date2 = 2014-06-20`
`date3 = Jun 20, 2014`

C) Compilation fails.

D) A `DateParseExcpetion` is thrown at runtime.

A. Option A
B. Option B
C. Option C
D. Option D

Answer: A

5.

Given the code fragment:

```
public static void main(String[] args) {
    String date = LocalDate
                  .parse("2014-05-04")
                  .format(DateTimeFormatter.ISO_DATE_TIME);
    System.out.println(date);
}
```

What is the result?

A. May 04, 2014T00:00:00.000
B. 2014-05-04T00:00: 00. 000
C. 5/4/14T00:00:00.000
D. An exception is thrown at runtime.

Answer: D

Explanation:

java.time.temporal.UnsupportedTemporalTypeException: Unsupported field: HourOfDay

6.

And given the requirements:

- If the value of the qty variable is greater than or equal to 90, discount = 0.5
- If the value of the qty variable is between 80 and 90, discount = 0.2

Which two code fragments can be independently placed at line n1 to meet the requirements?

☐ A)
```
if (qty >= 90) { discount = 0.5; }
if (qty > 80 && qty < 90) { discount = 0.2; }
```

☐ B)
```
discount = (qty >= 90) ? 0.5 : 0;
discount = (qty > 80) ? 0.2 : 0;
```

☐ C)
```
discount = (qty >= 90) ? 0.5 : (qty > 80)? 0.2 : 0;
```

☐ D)
```
if (qty > 80 && qty < 90) {
    discount = 0.2;
} else {
    discount = 0;
}
if (qty >= 90) {
    discount = 0.5;
} else {
    discount = 0;
}
```

☐ E)
```
discount = (qty > 80) ? 0.2 : (qty >= 90) ? 0.5 : 0;
```

A. Option A
B. Option B
C. Option C
D. Option D
E. Option E

Answer: A,C

7.
Which three statements are true about the structure of a Java class?

A. A class can have only one private constructor.
B. A method can have the same name as a field.
C. A class can have overloaded static methods.
D. A public class must have a main method.
E. The methods are mandatory components of a class.
F. The fields need not be initialized before use.

Answer: A,B,C

8.

```
public class Product {
    int id;
    String name;
    public Product(int id, String name) {
       this.id = id;
       this.name = name;
    }
}
```

And given the code fragment:

```
4. Product p1 = new Product(101, "Pen");
5. Product p2 = new Product(101, "Pen");
6. Product p3 = p1;
7. boolean ans1 = p1 == p2;
8. boolean ans2 = p1.name.equals(p2.name);
9. System.out.print(ans1 + ":" + ans2);
```

What is the result?

A. true:true
B. true:false
C. false:true
D. false:false

Answer: C

9.

Given:

```
public static void main(String[] args) {
    String ta = "A ";
    ta = ta.concat("B ");
    String tb = "C ";
    ta = ta.concat(tb);
    ta.replace('C', 'D');
    ta = ta.concat(tb);
    System.out.println(ta);
}
```

What is the result?

ANS : A B C C

10.

```
1. class X {
2.     public void printFileContent() {
3.         /* code goes here */
4.         throw new IOException();
5.     }
6. }
7. public class Test {
8.     public static void main(String[] args) {
9.         X xobj = new X();
10.        xobj.printFileContent();
11.    }
12. }
```

Which two modifications should you make so that the code compiles successfully?

- ☐ A) Replace line 8 with `public static void main(String[] args) throws Exception {`
- ☐ B) Replace line 10 with:

```
try {
    xobj.printFileContent();
}
catch(Exception e) { }
catch(IOException e) { }
```

- ☐ C) Replace line 2 with `public void printFileContent() throws IOException {`
- ☐ D) Replace line 4 with `throw IOException("Exception raised");`
- ☐ E) At line 11, insert `throw new IOException();`

ANS : A & C

11.

```
int[] intArr = {8, 16, 32, 64, 128};
```

Which two code fragments, independently, print each element in this array?

☐ A)
```
for (int i : intArr) {
    System.out.print(intArr[i] +" ");
}
```

☐ B)
```
for (int i : intArr) {
    System.out.print(i +" ");
}
```

☐ C)
```
for (int i=0 : intArr) {
    System.out.print(intArr[i] +" ");
    i++;
}
```

☐ D)
```
for (int i=0; i < intArr.length; i++) {
    System.out.print(i +" ");
}
```

☐ E)
```
for (int i=0; i < intArr.length; i++) {
    System.out.print(intArr[i] +" ");
}
```

☐ F)
```
for (int i; i < intArr.length; i++) {
    System.out.print(intArr[i] +" ");
}
```

ANS : B & E

12.

```
int nums1[] = new int[3];
int nums2[] = {1, 2, 3, 4, 5};
nums1 = nums2;
for (int x : nums1){
    System.out.print(x + ":");
}
```

What is the result?

A. 1:2:3:4:5:
B. 1:2:3:
C. Compilation fails.
D. An ArrayoutofBoundsException is thrown at runtime.

Answer: A

13.

```
public class Test {

    public static void main(String[] args) {

        String[][] chs = new String[2][];
        chs[0] = new String[2];
        chs[1] = new String[5];
        int i = 97;

        for (int a = 0; a < chs.length; a++) {
            for (int b = 0; b < chs.length; b++) {
                chs[a][b] = "" + i;
                i++;
            }
        }

        for (String[] ca : chs) {
            for (String c : ca) {
                System.out.print(c + " ");
            }
            System.out.println();
        }
    }
}
```

What is the result?

A. 97 98
99 100 null null null
B. 91 98
99 100 101 102 103
C. Compilation rails.
D. A NullPointerException is thrown at runtime.
E. An ArrayIndexOutOfBoundsException is thrown at runtime.

Answer: A

14.

```
public class App {
    public static void main(String[] args) {
        int i = 10;
        int j = 20;
        int k = j += i / 5;
        System.out.print(i + " : " + j + " : " + k);

    }
}
```

What is the result?

A. 10 : 22 : 20
B. 10 : 22 : 22
C. 10 : 22 : 6
D. 10 : 30 : 6

Answer: B

15.
Given:

```
public class FieldInit {
        char c;
        boolean b;
        float f;
        void printAll() {
                System.out.println("c = " + c);
                System.out.println("c = " + b);
                System.out.println("c = " + f);
        }
        public static void main(String[] args) {
                FieldInit f = new FieldInit();
                f.printAll();
        }
}
```

What is the result?
A. c = null
b = false
f = 0.0F

B. c = 0
b = false
f = 0.0f

C. c = null
b = true
f = 0.0

D. c =
b = false
f = 0.0
Answer: D

16.

Given the code fragment:

```
String shirts[][] = new String[2][2];
shirts[0][0] = "red";
shirts[0][1] = "blue";
shirts[1][0] = "small";
shirts[1][1] = "medium";
```

Which code fragment prints red: blue: small: medium?

A)
```
for (int index = 1; index < 2; index++) {
    for (int idx = 1; idx < 2; idx++) {
        System.out.print(shirts[index][idx] + ":");
    }
}
```

B)
```
for (int index = 0; index < 2; ++index) {
    for (int idx = 0; idx < index; ++idx) {
        System.out.print(shirts[index][idx] + ":");
    }
}
```

C)
```
for (String c : colors) {
    for (String s : sizes) {
        System.out.println(s + ":");
    }
}
```

D)
```
for (int index = 0; index < 2;) {
    for (int idx = 0; idx < 2;) {
        System.out.print(shirts[index][idx] + ":");
        idx++;
    }
    index++;
}
```

ANS : D

17.

```
public class Test {

    public static void main(String[] args) {
        if (args[0].equals("Hello") ? false : true) {
            System.out.println("Success");
        } else {
            System.out.println("Failure");
        }
    }
}
```

And given the commands:

javac Test.Java
Java Test Hello

What is the result?

A. Success
B. Failure
C. Compilation fails.
D. An exception is thrown at runtime

Answer: B

18.

```
public class Test{

    void readCard(int cardNo) throws Exception {
        System.out.println("Reading Card");
    }

    void checkCard(int cardNo) throws RuntimeException { // line n1
        System.out.println("Checking Card");
    }

    public static void main(String[] args) {
        Test ex = new Test();
        int cardNo = 12344;
        ex.checkCard(cardNo);                //line n2
        ex.readCard(cardNo);                 //line n3
    }
}
```

What is the result?

A. Reading Card Checking Card
B. Compilation fails only at line n1.
C. Compilation fails only at line n2.
D. Compilation fails only at line n3.
E. Compilation fails at both line n2 and line n3.
Answer: D

19.

```
public static void main(String[] args) {
    String str = " ";
    str.trim();
    System.out.println(str.equals("") + " " + str.isEmpty());
}
```

What is the result?

A. true true
B. true false
C. false false
D. false true

Answer: C

20.

Base.java:

```
class Base {
    public void test(){
        System.out.println("Base ");
    }
}
```

DerivedA.java:

```
class DerivedA extends Base {
    public void test(){
        System.out.println("DerivedA ");
    }
}
```

DerivedB.java:

```
class DerivedB  extends DerivedA {
    public void test(){
        System.out.println("DerivedB ");
    }
    public static void main(String[] args) {
        Base b1 = new DerivedB();
        Base b2 = new DerivedA();
        Base b3 = new DerivedB();
        b1 = (Base) b3;
        Base b4 = (DerivedA) b3;
        b1.test();
        b4.test();
    }
}
```

A. Base
DerivedA

B. Base
DerivedB

C. DerivedB
DerivedB

D. DerivedB
DerivedA

E. A classcast Except ion is thrown at runtime.
Answer: C

21.

```
public static void main(String[] args) {
    int ii = 0;
    int jj = 7;
    for (ii = 0; ii < jj - 1; ii = ii + 2) {
         System.out.print(ii + " ");
     }
}
```

What is the result?

A. 2 4
B. 0 2 4 6
C. 0 2 4
D. Compilation fails

Answer: C

22.

```
public class Planet {
    public String name;
    public int moons;

    public Planet(String name, int moons) {
        this.name = name;
        this.moons = moons;
    }
}
```

And the following main method:

```
public static void main(String[] args){
    Planet[] planets = {
        new Planet("Mercury", 0),
        new Planet("Venus", 0),
        new Planet("Earth", 1),
        new Planet("Mars", 2)
    };

    System.out.println(planets);
    System.out.println(planets[2]);
    System.out.println(planets[2].moons);
}
```

A)
```
planets
Earth
1
```

B)
```
[LPlanets.Planet;@15db9742
Earth
1
```

C)
```
[LPlanets.Planet;@15db9742
Planets.Planet@6d06d69c
1
```

D)
```
[LPlanets.Planet;@15db9742
Planets.Planet@6d06d69c
[LPlanets.Moon;@7852e922
```

E)
```
[LPlanets.Planet;@15db9742
Venus
0
```

Answer: C

23. Which statement is true about Java byte code?
A. It can run on any platform.
B. It can run on any platform only if it was compiled for that platform.
C. It can run on any platform that has the Java Runtime Environment.
D. It can run on any platform that has a Java compiler.
E. It can run on any platform only if that platform has both the Java Runtime Environment and a Java compiler.

Answer: C

24.

```
public class Customer {
    ElectricAccount acct = new ElectricAccount();

    public void useElectricity(double kWh){
        acct.addKWh(kWh);
    }
}

public class ElectricAccount {
    private double kWh;
    private double rate = 0.07;
    private double bill;

    //line n1
}
```

A)
```
public void addKWh(double kWh) {
    this.kWh += kWh;
    this.bill = this.kWh*this.rate;
}
```

B)
```
public void addKWh(double kWh) {
    if (kWh > 0){
        this.kWh += kWh;
        this.bill = this.kWh * this.rate;
    }
}
```

C)
```
private void addKWh(double kWh) {
    if (kWh > 0) {
        this.kWh += kWh;
        this.bill = this.kWh*this.rate;
    }
}
```

D)
```
public void addKWh(double kWh) {
    if(kWh > 0) {
        this.kWh += kWh;
        setBill(this.kWh);
    }
}
public void setBill(double kWh) {
    bill = kWh*rate;
}
```

Answer: B

25.

```
public class Employee {
    String name;
    boolean contract;
    double salary;
    Employee() {
        // line n1
    }
    public String toString(){
        return name + ":" + contract + ":" + salary;
    }
    public static void main(String[] args) {
        Employee e = new Employee();
        // line n2
        System.out.print(e);
    }
}
```

Which two modifications, when made independently, enable the code to print joe:true: 100.0?

☐ A) Replace `line n2` with:

```
e.name = "Joe";
e.contract = true;
e.salary = 100;
```

☐ B) Replace `line n2` with:

```
this.name = "Joe";
this.contract = true;
this.salary = 100;
```

☐ C) Replace `line n1` with:

```
this.name = new String("Joe");
this.contract = new Boolean(true);
this.salary = new Double(100);
```

☐ D) Replace `line n1` with:

```
name = "Joe";
contract = TRUE;
salary = 100.0f;
```

☐ E) Replace `line n1` with:

```
this("Joe", true, 100);
```

Answer: A,C

26.

Given the fragment:

```
24. float var1 = (12_345.01 >= 123_45.00) ? 12_456 : 124_56.02f;
25. float var2 = var1 + 1024;
26. System.out.print(var2);
```

What is the result?

A. 13480.0
B. 13480.02
C. Compilation fails
D. An exception is thrown at runtime
Answer: A

27.

```
3. public static void main(String[] args) {
4.     int iVar = 100;
5.     float fVar = 100.100f;
6.     double dVar = 123;
7.     iVar = fVar;
8.     fVar = iVar;
9.     dVar = fVar;
10.    fVar = dVar;
11.    dVar = iVar;
12.    iVar = dVar;
13. }
```

Which three lines fail to compile?

A. Line 7
B. Line 8
C. Line 9
D. Line 10
E. Line 11
F. Line 12

Answer: A,D,F

28.

```
1. public class Test {
2.     public static void main(String[] args) {
3.         /* insert code here */
4.         array[0]=10;
5.         array[1]=20;
6.         System.out.print(array[0]+":"+array[1]);
7.     }
8. }
```

Which code fragment, when inserted at line 3, enables the code to print 10:20?

A. int[] array n= new int[2];
B. int[] array;
array = int[2];
C. int array = new int[2];
D. int array [2] ;

Answer: A

29.

```
class A {
    public A(){
        System.out.print("A ");
    }
}

class B extends A{
    public B(){                          //line n1
        System.out.print("B ");
    }
}

class C extends B{

    public C(){                          //line n2
        System.out.print("C ");
    }
    public static void main(String[] args) {
        C c = new C();
    }
}
```

What is the result?
A. C B A
B. C
C. A B C
D. Compilation fails at line n1 and line n2
Answer: C

30.

```
class Test {
    public static void main(String[] args) {
        int numbers[];
        numbers = new int[2];
        numbers[0] = 10;
        numbers[1] = 20;

        numbers = new int[4];
        numbers[2] = 30;
        numbers[3] = 40;
        for (int x : numbers) {
            System.out.print(" "+x);
        }
    }
}
```

What is the result?
A. 10 20 30 40
B. 0 0 30 40
C. Compilation fails
D. An exception is thrown at runtime

Answer: B

31.

```
public class Employee {
    public int salary;
}

public class Manager extends Employee {
    public int budget;
}

public class Director extends Manager {
    public int stockOptions;
}
```

And given the following `main` method:

```
public static void main(String[] args) {
    Employee employee = new Employee();
    Manager  manager  = new Manager();
    Director director = new Director();
    //line n1
}
```

Which two options fail to compile when placed at line n1 of the main method?

A. employee.salary = 50_000;
B. director.salary = 80_000;
C. employee.budget = 200_000;
D. manager.budget = 1_000_000;
E. manager.stockOption = 500;
F. director.stockOptions = 1_000;

Answer: C,E

32.

```
 4. public static void main(String[] args) {
 5.     boolean opt = true;
 6.     switch (opt) {
 7.         case true:
 8.             System.out.print("True");
 9.             break;
10.         default:
11.             System.out.print("***");
12.     }
13.     System.out.println("Done");
14. }
```

Which modification enables the code fragment to print TrueDone?
A. Replace line 5 With String result = "true"; Replace line 7 with case "true":
B. Replace line 5 with boolean opt = l; Replace line 7 with case 1=
C. At line 9, remove the break statement.
D. Remove the default section.
Answer: A

33.

```
if (aVar++ < 10) {
    System.out.println(aVar + " Hello World!");
} else {
    System.out.println(aVar + " Hello Universe!");
}
```

What is the result if the integer aVar is 9?

A. 10 Hello world!
B. 10 Hello universe!
C. 9 Hello world!
D. Compilation fails.

Answer: A

34. Which three statements describe the object-oriented features of the Java language?

A. Objects cannot be reused.
B. A subclass can inherit from a superclass.
C. Objects can share behaviors with other objects.
D. A package must contain more than one class.
E. Object is the root class of all other objects. F. A main method must be declared in every class.

Answer: B,C,E

35.

```
public static void main(String[] args) {
    ArrayList myList = new ArrayList();
    String[] myArray;
    try {
       while (true) {
           myList.add("My String");
       }
    }
    catch (RuntimeException re) {
       System.out.println("Caught a RuntimeException");
    }
    catch (Exception e) {
       System.out.println("Caught an Exception");
    }
    System.out.println("Ready to use");
}
```

What is the result?

A. Execution terminates in the first catch statement, and caught a RuntimeException is printed to the console.
B. Execution terminates In the second catch statement, and caught an Exception is printed to the console.

C. A runtime error is thrown in the thread "main".
D. Execution completes normally, and Ready to us© is printed to the console.
E. The code fails to compile because a throws keyword is required.

Answer: C

36.

```
public class TestField {
        int x;
        int y;
        public void doStuff(int x, int y) {
                this.x = x;
                y =this.y;
        }
        public void display() {
                System.out.print(x + " " + y + " : ");
        }
        public static void main(String[] args) {
                TestField m1 = new TestField();
                m1.x = 100;
                m1.y = 200;
                TestField m2 = new TestField();
                m2.doStuff(m1.x, m1.y);
                m1.display();
                m2.display();
        }
}
```

What is the result?

A. 100 200 : 100 200
B. 100 0 : 100 0 :
C. 100 200 : 100 0 :
D. 100 0 : 100 200 :

Answer: C

37.

Given the code fragment:

```
int[] array = {I, 2, 3, 4, 5};
```

And given the requirements:
1. Process all the elements of the array in the order of entry.
2. Process all the elements of the array in the reverse order of entry.
3. Process alternating elements of the array in the order of entry.

Which two statements are true?

A. Requirements 1, 2, and 3 can be implemented by using the enhanced for loop.
B. Requirements 1, 2, and 3 can be implemented by using the standard for loop.
C. Requirements 2 and 3 CANNOT be implemented by using the standard for loop.
D. Requirement 1 can be implemented by using the enhanced for loop.
E. Requirement 3 CANNOT be implemented by using either the enhanced for loop or the standard for loop.

Answer: B, D

38.

Given:

```
class Caller {
    private void init() {
        System.out.println("Initialized");
    }

    public void start() {
        init();
        System.out.println("Started");
    }
}

public class TestCall {
    public static void main(String[] args) {
        Caller c = new Caller();
        c.start();
        c.init();
    }
}
```

What is the result?

A. Initialized Started
B. Initialized Started Initialized
C. Compilation fails
D. An exception is thrown at runtime

Answer: C

39.

MainTest.java:

```
public class MainTest {

    public static void main(int[] args) {
        System.out.println("int main " + args[0]);
    }
    public static void main(Object[] args) {
        System.out.println("Object main " + args[0]);
    }
    public static void main(String[] args) {
        System.out.println("String main " + args[0]);
    }
}
```

and commands:

```
javac MainTest.java
java MainTest 1 2 3
```

What is the result?

A. int main 1
B. Object main 1
C. String main 1
D. Compilation fails
E. An exception is thrown at runtime

Answer: C

40.

```
public class MarkList {
    int num;
    public static void graceMarks(MarkList obj4) {
        obj4.num += 10;
    }
    public static void main(String[] args) {
        MarkList obj1 = new MarkList();
        MarkList obj2 = obj1;
        MarkList obj3 = null;
        obj2.num = 60;
        graceMarks(obj2);
    }
}
```

How many MarkList instances are created in memory at runtime?

A. 1
B. 2
C. 3
D. 4

Answer: A

41.

```
public class App {
    public static void main(String[] args) {
        String str1 = "Java";
        String str2 = new String("java");
        //line n1
        {
           System.out.println("Equal");
        } else {
           System.out.println("Not Equal");
        }
     }
}
```

Which code fragment, when inserted at line n1, enables the App class to print Equal?

A)
```
String str3 = str2;
if (str1 == str3)
```

B)
```
if (str1.equalsIgnoreCase(str2))
```

C)
```
String str3 = str2;
if (str1.equals(str3))
```

D)
```
if (str1.toLowerCase() == str2.toLowerCase())
```

A. Option A
B. Option B
C. Option C
D. Option D

Answer: B

42. Which two are benefits of polymorphism?

A. Faster code at runtime
B. More efficient code at runtime
C. More dynamic code at runtime
D. More flexible and reusable code E. Code that is protected from extension by other classes

Answer: C,D

43. Which statement will empty the contents of a StringBuilder variable named sb?

A. sb.deleteAll();
B. sb.delete(0, sb.size());
C. sb.delete(0, sb.length());
D. sb.removeAll();

Answer: C

44.

Given the code fragment:

```
public static void main(String[] args) {
    Short s1 = 200;
    Integer s2 = 400;
    Long s3 = (long) s1 + s2;          //line n1
    String s4 = (String) (s3 * s2);    //line n2
    System.out.println("Sum is " + s4);
}
```

What is the result?

A. Sum is 600
B. Compilation fails at line n1.
C. Compilation fails at line n2.
D. A ClassCastException is thrown at line n1.
E. A ClassCastException is thrown at line n2.

Answer: E

45.

MyString.java:

```
package p1;
class MyString {
    String msg;
    MyString(String msg) {
        this.msg = msg;
    }
}
```

Test.java:

```
package p1;
public class Test {
    public static void main(String[] args) {
        System.out.println("Hello " + new StringBuilder("Java SE 8"));
        System.out.println("Hello " + new MyString("Java SE 8"));
    }
}
```

What is the result?

A) `Hello Java SE 8`
`Hello Java SE 8`

B) `Hello java.lang.StringBuilder@<<hashcode1>>`
`Hello p1.MyString@<<hashcode2>>`

C) `Hello Java SE 8`
`Hello p1.MyString@<<hashcode>>`

D) Compilation fails at the `Test` class.

Answer: C

46.

```
public class App {

    public static void main(String[] args) {
        Boolean[] bool = new Boolean[2];

        bool[0] = new Boolean(Boolean.parseBoolean("true"));
        bool[1] = new Boolean(null);

        System.out.println(bool[0] + " " + bool[1]);
    }
}
```

What is the result?

A. True false
B. True null
C. Compilation fails
D. A NullPointerException is thrown at runtime

Answer: A

47.

```
public class App {

    String myStr = "7007";

    public void doStuff(String str) {
        int myNum = 0;
        try {
            String myStr = str;
            myNum = Integer.parseInt(myStr);
        } catch (NumberFormatException ne) {
            System.err.println("Error");
        }
        System.out.println(
            "myStr: " + myStr + ", myNum: " + myNum);
    }

    public static void main(String[] args) {
        App obj = new App();
        obj.doStuff("9009");
    }
}
```

What is the result?

A. myStr: 9009, myNum: 9009
B. myStr: 7007, myNum: 7007
C. myStr: 7007, myNum: 9009
D. Compilation fails

Answer: C

48.

```
public class Vowel {
    private char var;
    public static void main(String[] args) {
        char var1 = 'a';
        char var2 = var1;
        var2 = 'e';

        Vowel obj1 = new Vowel();
        Vowel obj2 = obj1;
        obj1.var = 'i';
        obj2.var = 'o';

        System.out.println(var1 + ", " +var2);
        System.out.print(obj1.var + ", " + obj2.var);
    }
}
```

A. a, e
i, o
B. a, e
o, o
C. e, e
l, o
D. e, e
o, o

Answer: B

49.

```
class X {
    static int i;
    int j;
    public static void main(String[] args) {
        X x1 = new X();
        X x2 = new X();
        x1.i = 3;
        x1.j = 4;
        x2.i = 5;
        x2.j = 6;
        System.out.println(
            x1.i + " " +
            x1.j + " " +
            x2.i + " " +
            x2.j);
    }
}
```

What is the result?

A. 3 4 5 6
B. 3 4 3 6
C. 5 4 5 6
D. 3 6 4 6

Answer: C