

```

Q>
class Thingy { Meter m = new Meter(); }
class Component { void go() { System.out.print("c"); } }
class Meter extends Component { void go() { System.out.print("m"); } }
class DeluxeThingy extends Thingy {
    //meter object would come and meter would extend component so navigation is
    possible
    public static void main(String[] args) {
        DeluxeThingy dt = new DeluxeThingy();
        dt.m.go();
        Thingy t = new DeluxeThingy();
        t.m.go();
    }
}

```

Which two are true? (Choose two.)

- A. The output is mm.
- B. The output is mc.
- C. Component is-a Meter.
- D. Component has-a Meter.
- E. DeluxeThingy is-a Component.
- F. DeluxeThingy has-a Component.

relationship b/w 2 classes as inheritance => IS-A relation

relationship b/w 2 classes which are used for navigation => HAS-A relationship

Answer: A F

```

Q>
public class Test{
    public static void main(String[] args){

        boolean a =new Boolean(Boolean.valueOf(args[0]));//new Boolean(false)
        System.out.println(a);//false

        boolean b =new Boolean(args[1]);//new Boolean("null")
        System.out.println(b);//false
    }
}

```

And the commands are

```

javac Test.java
java Test 1 null

```

commandline arguments

```

=====
args[0] = "1"
args[1] = "null"

```

What is the result?

- A. 1 null
- B. true false
- C. false false
- D. true true
- E. Class cast Exception is thrown at the runtime

Answer: C

```

Q>
public class Test {
    public static void doSum(int x, int y){

```

```

        System.out.println("int sum is:: "+(x+y));
    }
    public static void doSum(Integer x, Integer y){
        System.out.println("Integer sum is:: "+(x+y));
    }
    public static void doSum(double x, double y){
        System.out.println("double sum is:: "+(x+y));
    }
    public static void doSum(float x, float y){
        System.out.println("float sum is:: "+(x+y));
    }
    public static void main(String[] args) {
        doSum(10,20);
        doSum(10.0,20.0);
    }
}

```

What is the result?

- A. int sum is :: 30
float sum is :: 30.0
- B. int sum is :: 30
double sum is :: 30.0
- C. Integer sum is :: 30
double sum is :: 30.0
- D. Integer sum is:: 30
float sum is :: 30.0

Answer: B

Q>

Given:

```

1. public class BuildStuff {
2.     public static void main(String[] args) {
3.         Boolean test = new Boolean(true); //test = true
4.         Integer x = 343;
5.         Integer y = new BuildStuff().go(test, x); // true, 343
6.         System.out.println(y); //49
7.     }
8.     int go(Boolean b, int i) {
9.         if(b) return (i/7); // return 343/7 => 49
10.        return (i/49);
11.    }
12.}

```

What is the result?

- A. 7
- B. 49
- C. 343
- D. Compilation fails.
- E. An exception is thrown at runtime.

Answer: B

Q>

```

class Vehicle{
    int x;
    Vehicle(){

```

```

        this(10);
    }
    Vehicle(int x){
        this.x = x;
    }
}
class Car extends Vehicle{
    int y;
    Car(){
        super(); // line-n1
        this(20); // line-n2
    }
    Car(int y){
        this.y = y;
    }
    public String toString(){
        return super.x + " " + this.y;
    }
}
public class Test {
    public static void main(String[] args) {
        Vehicle y = new Car();
        System.out.println(y);
    }
}

```

Predict the answer

- A. 10:20
- B. 0:20
- C. Compilation fails at line n1
- D. Compilation fails at line n2

Answer: D

Q>

```

public static void main(String[] args) {
    Integer i = new Integer(1) + new Integer(2); // line-12
    switch(i) { // line-13
        case 3: System.out.println("three"); break;
        default: System.out.println("other"); break; // line-15
    }
}

```

What is the result?

- A. three
- B. other
- C. An exception is thrown at runtime.
- D. Compilation fails because of an error on line 12.
- E. Compilation fails because of an error on line 13.
- F. Compilation fails because of an error on line 15.

Answer: A

Q>

Given:

```

public class Foo {
    static int[] a;
    static { a[0] = 2; }
    public static void main( String[] args ) {}
}

```

Which exception or error will be thrown when a programmer attempts to run this

code?

- A. java.lang.StackOverflowError
- B. java.lang.IllegalStateException
- C. java.lang.ExceptionInInitializerError
- D. java.lang.ArrayIndexOutOfBoundsException

```
static{  
    //if some excpetion occurs during initialization then it is called as  
    "ExceptionInInitalizerError"  
}
```

Q>

Given:

```
10. interface Jumper { public void jump(); }  
...  
20. class Animal {}  
...  
30. class Dog extends Animal { //Dog IS-A Animal , Dog Has-A tail  
31.     Tail tail;  
32. }  
...  
40. class Beagle extends Dog implements Jumper { //Beagle is a Dog, Beagle is a  
Animal, Beagle has-a tail, Beagle is-A jumper  
41.     public void jump() {}  
42. }  
...  
50. class Cat implements Jumper { //Cat is-a jumper  
51.     public void jump() {}  
52. }
```

Which three are true? (Choose three.)

- A. Cat is-a Animal
- B. Cat is-a Jumper
- C. Dog is-a Animal
- D. Dog is-a Jumper
- E. Cat has-a Animal
- F. Beagle has-a Tail
- G. Beagle has-a Jumper

Answer: BCF

QUESTION

Given:

```
1. class X {  
2.     X() { System.out.print(1); }  
3.     X(int x) {  
4.         this(); System.out.print(2);  
5.     }  
6. }  
7. public class Y extends X {  
8.     Y() { super(6); System.out.print(3); }  
9.     Y(int y) {  
10.         this(); System.out.println(4);  
11.     }  
12. public static void main(String[] a) { new Y(5); }  
13. }
```

What is the result?

- A. 13
- B. 134
- C. 1234

- D. 2134
- E. 2143
- F. 4321

Answer: C(1234)