**Question 1**

class F {

public static void main (String[] args) {

System.out.print(Byte.MIN\_VALUE+","+Byte.MAX\_VALUE);

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: -128,127 |
| b. | Prints: -127,128 |
| c. | Prints: 0,255 |
| d. | Compile-time error |
| e. | Run-time error |
| f. | None of the above |

**Question 2**

class D {

public static void main (String args[]) {

boolean b1 = Integer.MIN\_VALUE == 0x80000000;

boolean b2 = Integer.MAX\_VALUE == 0x7FFFFFFF;

System.out.print(b1 + "," + b2);

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: false,false |
| b. | Prints: false,true |
| c. | Prints: true,false |
| d. | Prints: true,true |
| e. | Compile-time error |
| f. | Run-time error |
| g. | None of the above |

**Question 3**

class G {

public static void main (String[] args) {

Long l1 = new Long("1"), l2 = new Long("1");

int h1 = l1.hashCode(), h2 = l2.hashCode();

StringBuffer s1 = new StringBuffer("1");

StringBuffer s2 = new StringBuffer("1");

int h3 = s1.hashCode(), h4 = s2.hashCode();

System.out.print((l1.equals(l2) & (h1==h2)) + ",");

System.out.print(s1.equals(s2) | (h3==h4));

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: false,false |
| b. | Prints: false,true |
| c. | Prints: true,false |
| d. | Prints: true,true |
| e. | Compile-time error |
| f. | Run-time error |
| g. | None of the above |

**Question 4**

Which methods of the java.lang.Double class return a primitive value?

|  |  |
| --- | --- |
| a. | doubleValue |
| b. | floatValue |
| c. | intValue |
| d. | longValue |
| e. | parseDouble |
| f. | toString(double) |
| g. | valueOf |

**Question 5**

class F {

static String m(float f) {return "f";}

static String m(Float f) {return "F";}

public static void main (String[] args) {

Float f1 = new Float(1);

System.out.print(m(f1.parseFloat("1")));

System.out.print(m(f1.floatValue()));

System.out.print(m(f1.valueOf("1")));

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: fff |
| b. | Prints: ffF |
| c. | Prints: fFf |
| d. | Prints: fFF |
| e. | Prints: Fff |
| f. | Prints: FfF |
| g. | Prints: FFf |
| h. | Prints: FFF |
| i. | Compile-time error |
| j. | Run-time error |
| k. | None of the above |

**Question 6**

class C {

public static void main (String args[]) {

String s1 = "1", s2 = "2";

Byte b1 = Byte.parseByte(s1);

Byte b2 = Byte.parseByte(s2);

System.out.print(b1.byteValue() + b2.byteValue());

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: 3 |
| b. | Prints: 12 |
| c. | Compile-time error |
| d. | Run-time error |
| e. | None of the above |

**Question 7**

class A {

public static void main (String[] args) {

String s = "11";

int i1 = Integer.parseInt(s);

System.out.print(new Integer(i1).equals(new Integer(i1)) + ",");

System.out.print(new Integer(i1).equals(new Integer(s)) + ",");

System.out.print(new Integer(i1) == new Integer(i1));

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: false,false,false |
| b. | Prints: false,false,true |
| c. | Prints: false,true,false |
| d. | Prints: false,true,true |
| e. | Prints: true,false,false |
| f. | Prints: true,false,true |
| g. | Prints: true,true,false |
| h. | Prints: true,true,true |
| i. | Compile-time error |
| j. | Run-time error |
| k. | None of the above |

**Question 8**

Which of the method invocation expressions would produce a run-time error?

|  |  |
| --- | --- |
| a. | Long.parseLong("1") |
| b. | Long.parseLong("1L") |
| c. | Long.parseLong("010") |
| d. | Long.parseLong("0x10") |
| e. | Long.parseLong("1.0") |

**Question 9**

Which method of the java.lang.Double class returns an instance of type Double?

|  |  |
| --- | --- |
| a. | doubleValue |
| b. | floatValue |
| c. | intValue |
| d. | longValue |
| e. | parseDouble |
| f. | toString(double) |
| g. | valueOf |
| h. | None of the above |

**Question 10**

class B {

public static void main (String[] args) {

byte b1 = 11;

System.out.print(new Integer(b1).equals(new Integer(b1)) + ",");

System.out.print(new Integer(b1).equals(new Short(b1)) + ",");

System.out.print(new Integer(b1).equals(new Byte(b1)));

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: false,false,false |
| b. | Prints: false,false,true |
| c. | Prints: false,true,false |
| d. | Prints: false,true,true |
| e. | Prints: true,false,false |
| f. | Prints: true,false,true |
| g. | Prints: true,true,false |
| h. | Prints: true,true,true |
| i. | Compile-time error |
| j. | Run-time error |
| k. | None of the above |

**Question 11**

Which of the method invocation expressions would produce a run-time error?

|  |  |
| --- | --- |
| a. | Long.parseLong("-1") |
| b. | Long.parseLong("+1") |
| c. | Long.parseLong("01") |
| d. | Long.parseLong("1L") |
| e. | Long.parseLong("1.0") |

**Question 12**

Which methods of the java.lang.Double class declare a parameter of type String?

|  |  |
| --- | --- |
| a. | doubleValue |
| b. | floatValue |
| c. | intValue |
| d. | longValue |
| e. | parseDouble |
| f. | valueOf |

**Question 13**

Which of the following methods of the java.lang.Integer class returns a primitive int type?

|  |  |
| --- | --- |
| a. | intValue |
| b. | parseInt |
| c. | valueOf |

**Question 14**

Which methods of the java.lang.Double class declare a NumberFormatException in the throws clause?

|  |  |
| --- | --- |
| a. | doubleValue |
| b. | floatValue |
| c. | intValue |
| d. | longValue |
| e. | parseDouble |
| f. | toString(double) |
| g. | valueOf |

**Question 15**

class F {

public static void main (String[] args) {

Integer i1 = new Integer("1");

Integer i2 = new Integer("1");

int h1 = i1.hashCode(), h2 = i2.hashCode();

StringBuffer sb1 = new StringBuffer("1");

StringBuffer sb2 = new StringBuffer("1");

int h3 = sb1.hashCode(), h4 = sb2.hashCode();

System.out.print((h1==h2)+","+(h3==h4));

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: false,false |
| b. | Prints: false,true |
| c. | Prints: true,false |
| d. | Prints: true,true |
| e. | Compile-time error |
| f. | Run-time error |
| g. | None of the above |

**Question 16**

class F {

public static void main (String args[]) {

Double d1 = new Double("0x10"); // 1

double d2 = Double.parseDouble("0x10"); // 2

Double d3 = Double.valueOf("0x10"); // 3

System.out.print(d1+","+d2+","+d3);

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: 10,10,10 |
| b. | Prints: 16,16,16 |
| c. | Compile-time error at line 1 |
| d. | Compile-time error at line 2 |
| e. | Compile-time error at line 3 |
| f. | Run-time error |
| g. | None of the above |

**Question 17**

class G {

public static void main (String[] args) {

Integer i1 = new Integer("1"), i2 = new Integer("1");

StringBuffer sb1 = new StringBuffer("1");

StringBuffer sb2 = new StringBuffer("1");

System.out.print(sb1.equals(sb2)+","+i1.equals(i2));

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: false,false |
| b. | Prints: false,true |
| c. | Prints: true,false |
| d. | Prints: true,true |
| e. | Compile-time error |
| f. | Run-time error |
| g. | None of the above |

**Question 18**

class H {

public static void main (String[] args) {

int i1, i2; Integer i3, i4;

i1=new Integer(Integer.parseInt("1")).intValue(); // 1

i3=new Integer(Integer.parseInt("1")).intValue(); // 2

i2=Integer.parseInt(Integer.valueOf("1").toString()); // 3

i4=Integer.parseInt(Integer.valueOf("1").intValue()); // 4

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Compile-time error at 1. |
| b. | Compile-time error at 2. |
| c. | Compile-time error at 3. |
| d. | Compile-time error at 4. |
| e. | Compile-time error |
| f. | Run-time error |