**Question 1**

class GFC401 {

static int m1(int x) {return ++x;}

public static void main (String[] args) {

int x = 1;

int y = m1(x);

System.out.println(x + "," + y);

}}

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

|  |  |
| --- | --- |
| a. | Prints: 1,1 |
| b. | Prints: 1,2 |
| c. | Prints: 2,1 |
| d. | Prints: 2,2 |
| e. | Run-time error |
| f. | Compile-time error |
| g. | None of the above |
| B |  |

**Question 2**

class GRC10 {

public static void main (String[] s) {

System.out.print(s[1] + s[2] + s[3]);

}}

java GRC10 A B C D E F

What is the result of attempting to compile and run the program using the specified command line?

|  |  |
| --- | --- |
| a. | Prints: ABC |
| b. | Prints: BCD |
| c. | Prints: CDE |
| d. | Prints: A B C |
| e. | Prints: B C D |
| f. | Prints: C D E |
| g. | Compile-time error |
| h. | Run-time error |
| i.  B | None of the above |

**Question 3**

class GFC402 {

static int x=1;

void m1(int i) {x++; i++;}

public static void main (String[] args) {

int y=3; m1(y);

System.out.println(x + "," + y);

}}

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

|  |  |
| --- | --- |
| a. | Prints: 1,3 |
| b. | Prints: 2,3 |
| c. | Prints: 1,4 |
| d. | Prints: 2,4 |
| e. | Run-time error |
| f. | Compile-time error |
| g. | None of the above |
| F | M1 is not static |

**Question 4**

class GFC403 {

private static int x=1;

static void m1(int i) {x++; i++;}

public static void main (String[] args) {

int y=3; m1(y);

System.out.println(x + "," + y);

}}

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

|  |  |
| --- | --- |
| a. | Prints: 1,3 |
| b. | Prints: 2,3 |
| c. | Prints: 1,4 |
| d. | Prints: 2,4 |
| e. | Run-time error |
| f. | Compile-time error |
|  |  |
| g.  B | None of the above |

**Question 5**

class GFC404 {

private static int x=1;

static void m1(int x, int y) {x++; y++;}

public static void main (String[] args) {

int y=3; m1(x, y);

System.out.println(x + "," + y);

}}

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

|  |  |
| --- | --- |
| a. | Prints: 1,3 |
| b. | Prints: 2,3 |
| c. | Prints: 1,4 |
| d. | Prints: 2,4 |
| e. | Run-time error |
| f. | Compile-time error |
| g. | None of the above |
| B |  |

**Question 6**

class GFC301 {

private String name;

public GFC301(String name) {this.name = name;}

public void setName(String name) {this.name = name;}

public String getName() {return name;}

public static void m1(GFC301 r1, GFC301 r2) {

r1.setName("Bird");

r2 = r1;

}

public static void main (String[] args) {

GFC301 pet1 = new GFC301("Dog");

GFC301 pet2 = new GFC301("Cat");

m1(pet1,pet2);

System.out.println(pet1.getName() + "," + pet2.getName());

}}

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

|  |  |
| --- | --- |
| a. | Prints: Dog,Cat |
| b. | Prints: Dog,Bird |
| c. | Prints: Bird,Cat |
| d. | Prints: Bird,Bird |
| e. | Run-time error |
| f. | Compile-time error |
| g. | None of the above |
| C |  |

**Question 7**

class GFC303 {

private String name;

public GFC303(String name) {this.name = name;}

public void setName(String name) {this.name = name;}

public String getName() {return name;}

public static void m1(GFC303 pet1, GFC303 pet2) {

pet1 = new GFC303("Fish");

pet2 = null;

}

public static void main (String[] args) {

GFC303 pet1 = new GFC303("Dog");

GFC303 pet2 = new GFC303("Cat");

m1(pet1,pet2);

System.out.println(pet1.getName() + "," + pet2.getName());

}}

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

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

**Question 8**

class GFC304 {

static void m1(int[] i1, int[] i2) {

int[] i3 = i1; i1 = i2; i2 = i3;

}

public static void main (String[] args) {

int[] i1 = {1}, i2 = {3}; m1(i1, i2);

System.out.print(i1[0] + "," + i2[0]);

}}

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

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

**Question 9**

class GFC305 {

static void m1(int[] i1, int[] i2) {

int i = i1[0]; i1[0] = i2[0]; i2[0] = i;

}

public static void main (String[] args) {

int[] i1 = {1}, i2 = {3}; m1(i1, i2);

System.out.print(i1[0] + "," + i2[0]);

}}

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

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

**Question 10**

class GFC306 {

static int[] i1 = {1}, i2 = {3};

static void m1(int[] i1) {

int[] i3 = i1; i1 = i2; i2 = i3;

}

public static void main (String[] args) {

m1(i1);

System.out.print(i1[0] + "," + i2[0]);

}}

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

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

**Question 11**

class GFC307 {

static void m1(int[] i1, int[] i2) {

i1 = i2 = null;

}

public static void main (String[] args) {

int[] i1 = {1}, i2 = {3}; m1(i1, i2);

System.out.print(i1[0] + "," + i2[0]);

}}

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

|  |  |
| --- | --- |
| a. | Prints: 0,0 |
| b. | Prints: 1,1 |
| c. | Prints: 1,3 |
| d. | Prints: 3,1 |
| e. | Prints: null,null |
| f. | Run-time error |
| g. | Compile-time error |
| h. | None of the above |

**Question 12**

class GFC308 {

int[] i1 = {1}, i2 = {3};

void m1() {

m2(i1, i2);

System.out.print(i1[0] + "," + i2[0]);

}

void m2(int[] i1, int[] i2) {

int[] i3 = i1;

this.i1 = i2;

this.i2 = i3;

}

public static void main (String[] args) {

new GFC308().m1();

}}

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

|  |  |
| --- | --- |
| a. | Prints: 0,0 |
| b. | Prints: 1,1 |
| c. | Prints: 1,3 |
| d. | Prints: 3,1 |
| e. | Prints: null,null |
| f. | Run-time error |
| g. | Compile-time error |
| h. | None of the above |